AD 696535

ONE-SIDED TOLERANCE LIMIT TABLES

AUGUST 1969



PREPARED BY

QUALITY EVALUATION LABORATORY DEPARTMENT

NAVAL AMMUNITION DEPOT, CRANE, INDIANA

Reproduced by the
CLEARINGHOUSE
for Federal Scientific & Technical
Information Springfield Va 22151

NAVAL AMMUNITION DEPOT Crane, Indiana

QETR No. 3 August 1969

ONE-SIDED TOLERANCE LIMIT TABLES

| PREPARED BY John 6. Gilley, Man | d. Silley thematical Statistician | 22 August 196; |
|---------------------------------|-----------------------------------|-----------------------------------|
| REVIEWED BY Robert D. Neathanne | er, Supervisory Mathema | 8/22/69 tical Statistician |
| UNDER DIRECTION OF James R. Ker | nt, Manager, Mathematic | 2/32/69 al and Statistical Branch |
| RELEASED BY John C. T. C. I. | r ulx | 8/28/69 |

ABSTRACT

The tables list K factors used to compute one-sided tolerance limits which can be represented by \bar{x} + Ks or \bar{x} - Ks (upper or lower limits, respectively). Tables are presented with entry by sample size, proportion of population covered, and confidence coefficient. The tables list K factors for n = 3 (1) 50 (5) 100 (10) 200, 250, 300 (100) 1000, 9999, and 50000; for proportion of population covered of .50 (.01) .99, .995, .999; and for confidence coefficients of .90, .95, and .99. Examples of the use of the tables are also included.

TABLE OF CONTENTS

| | | Page |
|---------|---|------|
| INTRODU | CTION | 1 |
| COVERAG | E OF TABLES | 3 |
| EXAMPLE | OF USE OF TABLES | 4 |
| CONSTRU | CTION OF TABLES | 5 |
| ACCURAC | Y | 7 |
| ACKNOWL | EDGEMENTS | 8 |
| REFEREN | CES | 9 |
| DISTRIB | UTION LIST | 10 |
| | | |
| TABLES | | |
| ī | Factors of One-Sided Tolerance Limits for a Normal Distribution, 90% Confidence | 12 |
| 11 | Factors of One-Sided Tolerance Limits for a Normal Distribution, 95% Confidence | 15 |
| III | Factors of One-Sided Tolerance Limits for a Normal Distribution, 99% Confidence | 18 |

ONE-SIDED TOLERANCE LIMIT TABLES

1. INTRODUCTION

Upper and lower 100 (1- α) percent confidence limits may be constructed with the property that when we say these limits include the true value of the parameter, 100 (1- α) percent of all such statements will be correct [1]. For example, the case of the mean [for sample size (n) larger than 29] can be represented as $\bar{x} + ks$ where \bar{x} is the mean, k is the corresponding normal deviate divided by \sqrt{n} , and s is the sample standard deviation.

Sometimes it is useful to obtain an interval that covers a fixed proportion of the population distribution with a desired confidence. These intervals are called tolerance intervals and may be constructed such that the interval covers a proportion of the population with a desired confidence. This can be represented by $\bar{x} + Ks$ where K is the tolerance factor. As the sample size increases the value of k for confidence intervals approaches zero while K for tolerance intervals approaches the normal deviate that includes the desired proportion of the universe.

Tolerance limits are based on the assumption that the underlying a statistical universe is normally distributed. Since μ (the population mean) and θ (the population standard deviation) are not known, the tolerance limits must be based on \bar{x} and \bar{s} from a random sample of no observations. The quantities \bar{x} and \bar{s} are random variables and hence the limit depends on the particular outcome of the sample. Different samples

may lead to different limits. Some situations necessitate the use of one-sided tolerance limits (upper or lower) which can be represented by \bar{x} + Ks or \bar{x} - Ks. These K values are given in Tables I, II, and III.

Various approximations have been used to calculate K values. Owen [4] [5] discusses the accuracy of four different approximation methods. The enclosed tables are based on the non-central t-distribution and make the use of approximations unnecessary.

II. COVERAGE OF TABLES

Factors K such that \bar{x} + Ks or \bar{x} - Ks is a one-sided tolerance limit for a normally distributed population are given in Table I for 90% confidence, Table II for 95% confidence, and Table III for 99% confidence. These are given for n = 3 (1) 50, 55 (5) 100, 110 (10) 200, 250, 300 (100) 1000, 9999, 50000 and for proportion of population covered of .50 (.01) .99, .995, .999.

III. EXAMPLE OF USE OF TABLES

A manufacturer of fuzes would like to specify a single lower limit above which he can be assured with a probability of 95% that at least 99% of his production will lie. A random sample of 30 fuzes is taken and the sample mean and standard deviation are found to be 605.1 and 12.65, respectively. A value of K = 3.064 corresponding to n = 30 with 95% probability and 99% of population covered is obtained from Table II. The required lower tolerance limit is given by \bar{x} -Ks = 605.1-(3.064)(12.65) = 566.3.

The manufacturer would also like to know with 95% probability what percent of his production will lie above 579.8 using the above data. The K value will be $\frac{\dot{x}-L}{s} = \frac{605.1 - 579.8}{12.65} = \frac{25.3}{12.65} = 2.00$. Table II is searched at n = 30 for 2.00. The .93 proportion of population covered column has K = 2.013 and the .92 column has K = 1.927. A conservative statement would

be that the manufacturer can be assured with a probability of 95% that at least 92% of his production will lie above 579.8. Linear interpolation, if necessary, with respect to the proportion of population covered is considered appropriate to use since only small errors can result. More accurate interpolation is accomplished by interpolating with respect to the normal deviate corresponding to the proportion of population covered.

IV. CONTRUCTION OF TABLES

The values of K given in the tables correspond to percentage points (divided by the square root of n) of the non-central t-distribution. The non-central t statistic, t_{n-1} , $\sqrt{n}K_{\alpha}$ has n-1 degrees of freedom and non-centrality parameter $\sqrt{n}K_{\alpha}$. K_{α} is defined by

$$1/\sqrt{2\pi}\int_{K_{\alpha}}^{\infty}e^{-z^{2}/2}dz=\alpha.$$

To find K, determine t_0 such that $P[t_{n-1}, \sqrt{n}K_{\alpha} > t_0] = 1 - \gamma$. Let $K = t_0/\sqrt{n}$ [3]. Then \overline{x} + Ks and \overline{x} - Ks are upper one-sided and lower one-sided tolerance limits, respectively. It can be stated with $100\gamma\%$ confidence that at least $100(1-\alpha)\%$ of the distribution will be less than \overline{x} + Ks (or greater than \overline{x} - Ks).

Table IV of Johnson and Welch [2] was used to compute the non-centrality parameter of the non-central t-distribution. An iteration method was necessary and this was performed, in single precision, on a Honeywell 2200 Computer (65K storage). The value — was replaced by 100,000 so interpolation could be performed. The following steps were used:

- A. Determine K_{α} , the normal deviate exceeded with probability α .
- B. Calculate $\delta = \sqrt{n}K_{\alpha}$, the non-centrality parameter of the non-central t-distribution, and f = n-1, the number of degrees of freedom.
 - C. Determine $Z_{(1-\gamma)}$, the normal deviate exceeded with probability 1- γ .
 - D. Calculate the first approximation to by

$$\frac{\delta + z_{(1-\gamma)} \sqrt{1 + \frac{\delta^2}{2f} - \frac{z^2_{(1-\gamma)}}{2f}}}{1 - \frac{z^2_{(1-\gamma)}}{2f}}$$

E. Calculate
$$\frac{t_1}{\sqrt{2f}}$$

F. Find
$$y = \frac{1}{\sqrt{\frac{t_1^2}{1 + \frac{t_1^2}{2t}}}}$$
 if $\left| \frac{t_1}{\sqrt{2t}} \right|$ is greater than 0.75 or

$$y' = \frac{t_1/\sqrt{2f}}{\sqrt{1 + \frac{t_1^2}{2f}}} \quad \text{if} \left| \frac{t_1}{\sqrt{2f}} \right| \text{ is less than 0.75.}$$

- G. Obtain $\lambda_1 = \lambda(f, t_1, 1-\gamma)$ from Table IV of Johnson and Welch
- H. Calculate a second approximation t, where

$$t_{2} = \frac{\delta + \lambda_{1} \sqrt{1 + \frac{\delta^{2}}{2f} - \frac{\lambda_{1}^{2}}{2f}}}{1 - \frac{\lambda_{1}^{2}}{2f}}$$

- I. Repeat steps (E) through (H) replacing t_1 by t_2 and calculate a third approximation. Repeat these steps until two successive approximations are the same. Take for $t(f, \delta, 1-\gamma)$ the value so obtained.
 - J. Calculate $K = \frac{t(f, \delta, 1-\gamma)}{\sqrt{n}}$.

V. ACCURACY

The results in the enclosed tables should be accurate to within .005 and rarely more than .002 from the true value.

ACKNOWLEDGEMENTS

Appreciation is expressed to William Larkin of the Data Processing Department who wrote the Exact One-Sided Tolerance Limit Program and to the Data Processing Department for providing the computer time.

REFERENCES

- 1. Brownlee, K. A. Statistical Theory and Methodology in Science and Engineering Wiley, New York, 1960, p. 121.
- 2. Johnson, N. L. and Welch, B. L., "Application of the Non entral t-Distribution" Biometrika (1940), 31
- 3. Lieberman, Gerald J., "Tables for One-Sided Statistical Tolerance Limits" Technical Report No. 34 Contract N6Onr-25126 (NR-042-002) (1957) Office of Naval Research
- 4. Owen, D. B., "A Survey of Properties and Applications of the Non-Central t-Distribution," Technometrics Vol. 10, No. 3, August 1968, pp. 445-478
- 5. Owen, Donald B., "Tables of Factors for One-Sided Tolerance Limits For a Normal Distribution," AEC Contract AT-(29-1)-789 (1958)
- 6. Resnikoff, George J., "Tables to Facilitate the Computation of Percentage Points of the Non-Central t-Distribution," Technical Report No. 55 Contract Nonr-225 (53) (NR-042-002) (1961) Office of Naval Research

FACTORS OF CYF-SIDED TOLFRANCE LIMITS FOR A NORMAL DISTRIBUTION

90% CONFIDENCE

Proportion of Population Covered - >

Ì

| | | 900 | 5 | . 52 | .53 | • 12 | . 55 | 98. | .57 | . 58 | 62. | 09. | .61 | .62 | 63 | • • | . 63 | 99. | .67 |
|----------|-----|-------|-------|-------|---------|---|---------|---------|-------|-------|-------|--------|-------|-------|-------|-------|-------|---------|------------|
| | - | 080 | 1,136 | 1.184 | 1,234 | 1,283 | 1,334 | 1,386 | | 1,492 | 1,547 | 1,602 | 1,659 | 1,717 | 1,776 | 1.836 | 1.898 | 1.961 | 2.025 |
| | | 618 | . 856 | 808 | .933 | .972 | 1.012 | 1,052 | 1.093 | 1,135 | 1.177 | | 1,263 | 1.307 | 1,352 | 1,398 | 1.445 | 1.492 | 1.541 |
| | | 989 | 710 | 753 | . 788 | . 623 | .856 | 804 | 030 | vo. | 1.004 | 1.042 | 1.080 | 1,119 | 1,158 | 1,198 | | | 1,323 |
| | | 602 | 634 | 999. | 869. | ,731 | 194 | 707. | .831 | .865 | 006 | .035 | 063. | 1.006 | 1.043 | 1.080 | 1.118 | 1,156 | 1,195 |
| | | 440 | 575 | .605 | .636 | .667 | 669 | .731 | .763 | 0 | .828 | .862 | 968. | .930 | .965 | 0000 | 1.036 | ~ | 1,100 |
| # Z 2 | | 000 | 530 | 900 | 000 | 0 0 | 029 | .681 | 712 | 744 | .776 | 808 | .841 | .874 | .007 | .041 | 976 | 1.011 | 1.047 |
| | | | 456 | 200 | 200 | 2 C C C C C C C C C C C C C C C C C C C | 2016 | | 270 | | 131 | 90/ | 837. | 930 | 503 | 800 | 930 | *96. | . 990 |
| | | 414 | | 0 1 | 000 | 50.0 | | | | | 47.4 | 100 | | . 46. | 200 | 0 6 | 900 | 926. | 000 |
| | | 304 | 42, | 04 | 678 | 0 | \$ P.S. | 0 10 | 0 0 | 525 | | | | 7.00 | | | 900. | 0 | 976 |
| | | 376 | *0 | 431 | 459 | 6 6 | 516 | 544 | 573 | 602 | 631 | 199 | 9 | 721 | 7.52 | - C | • • • | \$ 00 ° | 400 |
| | | 351 | 388 | 416 | 443 | 471 | 664 | 528 | 556 | 585 | 614 | 643 | 673 | 703 | 733 | 764 | 705 | 827 | 900 |
| | | 347 | 374 | 405 | 420 | 457 | 485 | 513 | 541 | 570 | 598 | 628 | .657 | 687 | 717 | 747 | 778 | 910 | 4 |
| | 1 | .335 | .362 | 189 | .419 | | .47% | . 500 | .528 | .556 | .585 | .614 | .643 | 5/90 | 102 | 733 | | 101 | 824 |
| | | .324 | .351 | .378 | 0.05 | .433 | .460 | 488 | .516 | .544 | .572 | .601 | 630 | .660 | 689 | .719 | 150 | 781 | .812 |
| | | 314 | 341 | 368 | 10 OF 1 | 422 | S. | . 477 | . 505 | 533 | .561 | .590 | .619 | .648 | .678 | .707 | .738 | .769 | 900 |
| | | 305 | 332 | 989 | 386 | . a 1 d | | | 605 | .523 | . 551 | .580 | 609 | .638 | .667 | .697 | .727 | 757 | .768 |
| | | 163. | 36. | 000 | | | 104 | . 50 | 00 | .51 | 542 | 570 | 665. | .628 | .657 | . 687 | .717 | . 747 | .778 |
| | - } | 580 | 316 | 342 | 369 | 396 | 1423 | 450 | . 78 | \$206 | .534 | . 562 | 290 | .619 | .648 | ,678 | . 708 | .738 | .769 |
| | | 292 | 300 | 666 | 305 | 380 | 416 | E 4 4 . | . 470 | 604 | 526 | .554 | .582 | .611 | 049 | 699* | 669. | .729 | 1,60 |
| | | 676 | 305 | 328 | 505. | 386 | 004 | 436 | . 63 | | .518 | .546 | . 575 | 603 | .632 | . 662 | 169. | .721 | .752 |
| W | | 692 | 296 | 322 | 349 | 375 | *05 | 420 | 457 | 484. | .512 | 240 | .568 | . 596 | .625 | .654 | .684 | 714 | 744 |
| | | .264 | . 290 | .316 | . 463 | .359 | 396 | .423 | . 50 | .478 | • 505 | .533 | .561 | 290 | .618 | .648 | .677 | .707 | 737 |
| | | 25.58 | , K | 110. | 1337 | 000 | 100 | . 417 | 0 0 | | 004 | 527 | 80 1 | .584 | .612 | 100 | .671 | .700 | .731 |
| | | 200 | 274 | 200 | 335 | 000 | 200 | 100 | | 00. | | 276. | 000 | 2/2 | 200. | 638 | .885 | • | .724 |
| | | 200 | 270 | 200 | 322 | 900 | 876 | *00 | 000 | | | 010 | 0 4 | 270. | | 000 | 000 | 000 | 410 |
| | | 230 | 266 | 202 | 318 | 300 | 1 / 1 | E 0 M | 424 | | 04 | | e e | | | 0 0 | 00. | 0 | |
| | | 235 | 261 | 288 | 916 | 075 | 367 | E 0 E | 420 | 447 | | | | | | | | B / C | 80. |
| | | 231 | 257 | 286 | 310 | (F) | F 9 F | 0 6 | 416 | 4 | 470 | 400 | | | | | | 200 | 5 (|
| | | 228 | 254 | 280 | 906 | 0 M | 000 | 38.5 | •12 | 0 0 | | 404 | | 2 4 | | | 4000 | 100. | 000 |
| | 1 | 220 | 250 | 276 | 202 | 955 | 552 | 282 | 404 | 6.5 | 200 | 000 | | 7 | 42.4 | 900 | 620 | • 00 • | |
| Z | | 221 | 247 | 273 | 299 | 325 | 352 | 378 | 405 | 432 | 459 | 486 | | 545 | 570 | | . 631 | | 964 |
| | | 218 | .244 | .270 | .296 | .322 | 348 | 375 | .401 | 428 | 455 | 483 | 510 | 538 | 266 | 595 | 623 | 650 | 682 |
| | | .215 | .240 | .266 | . 292 | 310 | 345 | 371 | 398 | .425 | .452 | .479 | 507 | . 535 | 563 | 165. | .620 | 649 | 678 |
| | | . 212 | .237 | .263 | . 269 | .316 | .342 | 9,36 | .395 | .422 | 440 | .476 | .504 | . 531 | .559 | .588 | .616 | 9.99 | .675 |
| | | 602 | 235 | . 261 | .287 | .313 | 330 | .365 | .392 | •10 | 940 | .473 | .500 | .528 | .556 | .584 | .613 | .642 | .672 |
| | | 907 | 2000 | 900 | | 0 5 | 955 | 565 | 386 | 01. | | 0.4 | 407 | 525 | .553 | 195. | •610 | 639 | 9 |
| | | 200 | 100 | | 270 | 300 | | 900 | 900 | | | | | 775. | 900 | 929 | • 607 | 929 | ø. |
| | | 100 | 224 | 250 | 276 | 200 | 328 | 355 | 1987 | | 435 | 200 | | A 10. | | 070 | | 550. | 299 |
| | | 196 | . 222 | .248 | .274 | 300 | .326 | .352 | .379 | . 405 | .432 | 459 | .487 | 514 | 542 | 920 | 0 | 628 | 657 |
| | | 104 | .220 | .245 | .271 | .297 | .324 | .350 | 376 | .403 | .430 | .457 | 101. | .512 | .540 | . 568 | 969 | . 625 | .654 |
| | | 261. | .217 | .243 | • 269 | 295 | 321 | 348 | .374 | 04. | .427 | 454 | 482 | .509 | .537 | .565 | .594 | 229 | .652 |
| | | 190 | -215 | .241 | .207 | . 203 | 93.0 | 500 | .372 | .398 | 25 | . 452 | .479 | .507 | . 545 | . 563 | 166. | .620 | .649 |
| | | 188 | .213 | 952. | 592 | 201 | -317 | 5 | 370 | 306 | .423 | • ♦ 80 | .477 | . 505 | .632 | .561 | .589 | .618 | .647 |
| | | 981 | 112. | . 237 | . 563 | . 289 | 515 | 100 | .368 | 300 | 124 | | .475 | . 502 | .530 | .558 | .587 | .615 | .645 |
| | | | | 000 | | 187. | 245 | 9 6 | 565. | 392 | 0 . | • | .473 | 500 | .528 | .556 | . 585 | .613 | .642 |
| | -1 | 6,4 | 102 | 210 | •63. | 2/0 | 300 | 35. | 350 | 282 | 004 | 436 | .463 | \$ | .518 | .546 | .575 | .603 | .632 |
| | | 141 | 186 | 212 | 237 | 263 | 280 | 315 | 3 6 | | | | 000 | 200 | 010 | 000 | | 269. | .623 |
| Z | | 155 | 180 | 206 | .231 | .257 | .283 | 300 | 335 | 361 | 388 | . 15 | | 000 | 000 | 926 | | . 000 | 010 |
| | 15 | 140 | 175 | .200 | .226 | . 252 | .277 | 303 | .329 | 356 | .382 | 00 | 436 | .463 | 0 | 910 | 346 | 574 | 000 |
| 1 | | **. | . 30 | 1 | 100 | 2 & 7 | . 272 | 208 | 40E | 141 | 177 | AUA | VE 4 | 460 | A & A | | | | |

To the Antion Washes a set of the transfer of the transfer of Santas

السنديابابال

Pronoriton of Population Covered ---

| | | . 8 | • | .70 | .71 | .72 | .73 | * . | .75 | • 76 | | . 78 | . 70 | 00 | .0. | . 62 | . 63 | 8 | 8. |
|-----|----|-------|-------|-------|----------|-----------------|-------|------------|-------------|---------|------------|---------|-------|-------|---------|--------|---------|-------|--------|
| | ~ | .001 | • | .22 | . 29 | 37 | 2.447 | 2,524 | 2,603 | 2.684 | 2,769 | 2,856 | 2.946 | 0.3 | .13 | ~ | 3 | 3.453 | • |
| | ~ | 200 | 1.641 | 9 | 7.4 | .80 | • | 1,913 | 1.972 | 2,033 | 2,005 | 2,159 | ~ | 2,295 | 2,366 | 2.441 | 2,518 | 2.599 | |
| | - | 365 | • | S | 20 | 5.0 | 1.597 | 1.647 | 1.698 | 1.750 | 1.804 | 1.859 | 1.917 | 0 | .03 | .10 | . 16 | 2.237 | Û |
| u | | 233 | • | - C | 36 | • | 1.649 | 1.403 | 1.540 | 1.588 | 1.637 | 1.688 | | 70 | | 0 | . 97 | 2.033 | ٦. |
| | | 7 6 0 | • | | 0 0 | 9 0 | 3.00 | 1.301 | 1.435 | 1.480 | 1.527 | 1.575 | N 4 | 6 4 | 4. | 40 (| | 1.900 | • |
| 1 H | 0 | 034 | 1.070 | 1.107 | 1 . 1 | 1,162 | 1.221 | 1.261 | 1,302 | 446.1 | 1.388 | 1.632 | 478 | 525 | 5.7 | 1.625 | 1.678 | 20001 | 1.701 |
| | L | . 995 | 1.030 | 9 | 0 | 13 | 1.178 | 1.217 | 1.257 | 1.298 | 1.340 | 1.383 | 1.428 | - | 1.522 | - | . (| 1.677 | |
| | | .962 | 100. | • | 0 | 0 | 1.142 | 1.160 | 1.219 | 1.260 | 1.301 | 1,343 | 1,367 | P) | 1 | ~ | - | 1,631 | 1.686 |
| н | | 938 | 696. | 1.004 | F | 0 | 1.112 | 1.150 | 1.188 | 1.228 | 1.268 | 1.310 | 1,353 | 30 | • | • | • | 1.593 | ÷ |
| | | . 912 | . 045 | 086 | 0 | 0 | 1.086 | 1,123 | 1,162 | 1.201 | 1.241 | 1,282 | 1,324 | 36 | 1.414 | • | 1.509 | 1.560 | |
| н | | .892 | . 025 | 080 | 666 | 0 | 1.064 | 1.101 | 1,139 | 1.177 | 1,217 | 1,258 | 1,299 | 1,343 | 1,388 | г. | 1.482 | 1,532 | S |
| | -1 | . 874 | .007 | 040. | .974 | 0 | 1.045 | 1.061 | 1.119 | 1.157 | 1.130 | 1.236 | 1.278 | 1.221 | 36 | 1.411 | 1.458 | 1.504 | 1.560 |
| H | | . 656 | 100 | .924 | . 958 | . 005 | 1.028 | 1.064 | 1.101 | 1,139 | 1.177 | 1.217 | 1,258 | 1,301 | 1,345 | 1.350 | 1.438 | 1.487 | 1,538 |
| | | | 929 | 000 | F # 6 . | О 1 | 1.012 | 1.048 | 1.085 | 1.122 | 1.161 | 1.201 | 1.241 | 1.283 | 1.327 | 1.372 | 1.419 | 1.468 | N) |
| | | 158. | 000 | 000 | 050 | 90. | 000 | 1.034 | 1.071 | 1.108 | 1.146 | 1 . 185 | 1,226 | 1.268 | 1,311 | 1,356 | 1.402 | 1.451 | ₩) |
| | | 000 | 768 | | 100 | | 0 0 0 | 1.021 | 950.1 | 2600 | 1,133 | 1.172 | 1,212 | 1,254 | 1,296 | 1.341 | 1,387 | . 435 | 1,485 |
| | | | | | | • | 0 | 010 | 450 | 200 | 1.160 | 1.50 | | 1.241 | 1.283 | 1.327 | 1,373 | 1.421 | |
| | 1 | 000 | 66. | | | > 0 | | 000 | 1000 | 2/0 | 000 | | 001 | 622. | 1.5.1 | 1,315 | 1961 | £ 0 . | 1.458 |
| | | 783 | | | | • 0 | | | 1 016 | 1 0 2 2 | 000 | 1010 | 1.167 | 200 | 200 | 305 | 046 | 396 | • |
| | | 775 | 908 | 838 | . 871 | 00 | 938 | 972 | 1.007 | 1.044 | 1.001 | 1.119 | 1.158 | 1 198 | 1.240 | 1.284 | 0000 | 1975 | |
| | | 768 | 799 | 831 | .863 | • | .930 | *96 | 1,000 | 1,036 | 1.072 | 1 10 | 1.150 | 1,190 | 1,231 | 1.275 | 0.6 | 1.366 | • |
| | | .761 | . 792 | .824 | . 856 | GRO. | | . 957 | . 992 | 1,028 | 1,065 | 1,103 | 1,142 | 1,182 | 1,223 | 1. 200 | 1,311 | 1.357 | 1.006 |
| | | 755 | 786 | 618 | .850 | 683 | 916 | 056 | -96 | 1,021 | 1,058 | 1,095 | 1,134 | 1.174 | 1,216 | 1,258 | 1,303 | 1,349 | 1,397 |
| | | 740 | 780 | . 612 | 986 | . 876 | 910 | *** | 646. | 1.014 | 1.051 | 1.089 | 1.127 | 1,167 | 1,208 | 1,251 | 1,295 | 1.341 | 300 |
| | | 744 | . 775 | 908 | 6 4 8 . | . 671 | | .938 | . 973 | 1.008 | 1.045 | 1.082 | 1.121 | 1.160 | 1.202 | 1.244 | 1,288 | 1,334 | 1,382 |
| | | 738 | 769 | .00. | 200 | . 865 | 808 | 932 | . 967 | 1.002 | 1.039 | 1.076 | 1.114 | 1,154 | 1,195 | 1.238 | 1,282 | 1,327 | 1,375 |
| | | 733 | 100 | 705 | 68.7 | 0 0 | | .927 | .961 | 600 | 1,033 | 1.070 | 1.109 | 1.148 | 1 . 189 | 1,231 | 1,275 | 1,321 | 1,369 |
| | | 402 | | 101. | 770 | 000 | 000 | 226 | 920 | 150. | 028 | 290. | 1,103 | 1 1 3 | . 103 | 1,226 | 1.269 | 1,315 | 1,363 |
| | - | , , | | | | 200 | | | 100 | 000 | 1.023 | 000. | 1.098 | 1.137 | 178 | 1.220 | 1.264 | 1 300 | 1,357 |
| | | 716 | 7.47 | 7 (3) | 000 | | | | | 104 | | | 0.00 | 100 | 2 4 4 4 | 613. | 1.258 | 000 | 1,351 |
| | | 712 | 743 | 774 | 809 | 637 | 670 | *00 | 038 | 073 | 000 | 1 0 4 6 | 460 | 123 | 1.100 | | 1.655 | 200 | 1,340 |
| | | 708 | 739 | 770 | . 801 | 633 | | 000 | 934 | 696 | 1 005 | 1.041 | 1.079 | 1 110 | 150 | 200 | 244 | 280 | 3.46 |
| | | 705 | . 735 | . 766 | . 798 | . 630 | | 968. | 930 | 965 | 1001 | 1.037 | 1.075 | :: | 1.154 | 1.196 | 1.239 | 1.284 | 1,331 |
| | | .702 | . 732 | . 763 | . 794 | .826 | .859 | .892 | .926 | .961 | . 997 | 1,033 | 1.071 | 1,110 | 1,150 | 1,192 | 1,235 | 1.280 | 1,327 |
| | | 609 | 729 | . 750 | 101 | .023 | | 0.00 | . 923 | 957 | 666 | 1.030 | 1.067 | 1,106 | 1.146 | 1.188 | 1,231 | 1.276 | 1,323 |
| | | 000 | | | 00. | | | 0 0 | | Э (| 000 | 1.026 | 1 000 | 1.103 | 1,143 | 1.184 | 1.227 | 1.272 | 1,319 |
| | | 9 | 720 | 100 | 782 | | | 270 | | 100 | | 010 | 1.000 | | 1.139 | 1.180 | 1.223 | 1.268 | 1,315 |
| | | .687 | 717 | 747 | 770 | 0.0 | 843 | 876 | | . 0 | 000 | 9.0 | 400 | 000 | 25 | | 4.6 | 26. | 1 10 1 |
| | | .684 | 414 | 745 | .776 | 808 | | . 673 | 400 | 146 | .977 | 1.013 | 1.051 | 080 | 120 | 170 | 1 2 1 3 | 287 | 000 |
| | 1 | 9 | .711 | .742 | . 773 | 808 | | .870 | ₩00 | 938 | .074 | 010 | 1.048 | 1.086 | 1.126 | 1.167 | 1.210 | 254 | 100 |
| | | 619 | . 709 | .740 | .771 | . 802 | .835 | . 868 | 106 | 0 | . 971 | 1.007 | 1.045 | 1.083 | 1,123 | 1.16 | 1.207 | 1,251 | 1.207 |
| | | .676 | . 707 | 137 | . 768 | 000 | | .865 | 669. | 0 | 996 | 1,005 | 1.042 | 1.080 | 1,120 | 1,161 | 1.204 | 1.24B | 1.204 |
| | | .674 | 104 | 735 | .766 | 101. | | . 86.2 | 969. | 0 | 996 | 1,002 | 1.039 | 1.078 | 1,117 | 1.158 | 1,201 | 245 | 1 201 |
| | | .672 | . 702 | 732 | .763 | 705 | | 098 | | 926 | 96 | 000 | 1,037 | 1,075 | 1.114 | 1,155 | 1.100 | 1.242 | 1.288 |
| | | 299. | .692 | .722 | .753 | .784 | 919. | 040 | • | . 917 | 9 | 080 | 1.025 | 1.063 | 1,102 | 1,143 | 1,165 | 1,229 | 1,275 |
| | | 653 | .683 | EI4. | ** | . 775 | | .839 | .673 | .907 | .942 | 970. | 1.514 | 1,052 | 1.092 | 1,132 | 1.174 | 1.218 | 1.264 |
| | | | . 673 | . 103 | 735 | . 767 | 100 | .631 | • | 868. | (1) | 696 | 1.005 | 1.043 | 1.082 | 1,123 | 1,165 | 1,208 | 1,254 |
| | | 0.00 | 800. | | 722 | 00/ | 101 | .824 | 60 4 | 100 | α. | 196 | 900 | 1,035 | 1.074 | 1.114 | 1.156 | 1.200 | 1.245 |
| | | 909 | 989 | 9 | 716 | 7.07 | 770 | | 00. | . 20 | 910 | | 000 | 1.028 | 1.067 | 1.107 | 1.149 | 1.192 | 1,237 |
| | | 621 | 651 | 6.01 | | 7.2 | 774 | 000 | 1 17 | 27.8 | - 0 | | | 220.1 | | | 142 | 1.05 | 1,230 |
| | į. | * * * | 7.7 | 1-1 | 2 2 2 2 | - | | |) | , |) | | D . > | > | 170. | 1 . v. | 1 1 20 | : . | |

| 7000 0000 0000 0000 0000 0000 0000 000 | 974 1 000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | | 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | 2 | 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 8 4 8 4 8 4 8 4 8 4 8 4 8 4 8 4 8 4 8 4 | 388 1, 434 345 1, 434 347 1, 356 3411 1, 356 240 1, 341 250 1, 250 | 200 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | 80 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
|--|---|--|--|---|---|---|--|---|--|---|---|---|
| 74 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | | | 00000000000000000000000000000000000000 | | 11146 | 00000000000000000000000000000000000000 | 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | • • • • • • • • • • • • • • • • • • • | | | | |
| ### ### ### ### ### ### ### ### ### ## | | | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | | 6.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | | |
| 7000 0000 0000 0000 0000 0000 0000 000 | | | 00000000000000000000000000000000000000 | | | | 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | | | | | |
| 7469 | | | 00000000000000000000000000000000000000 | | | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | | | |
| 7469 | | oho en no -i o o o o o b b b b o o nio ne e e e in mn | 00000000000000000000000000000000000000 | | | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | 0.0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | . 4 4 4 4 4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 |
| 701 703 703 703 703 703 703 703 703 703 703 | | 0 4 9 9 0 - i- 0 0 0 0 0 0 k k k b 0 0 10 10 0 4 4 4 4 9 9 9 | per set set set | | | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 11 1 2 2 1 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 1 1 2 2 1 | | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | | |
| 745 | | | 140 | | | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | 7 | | r we we we en pen en pen en en en en en en en en en eu eu eu eu eu |
| 768 746 746 746 746 746 746 746 746 | _ (1 1 1 | n a - i- o o o o o o b b b b o o o io io o a a a a in o o | | | | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 1150 1112 1122 1102 1103 1103 1103 1103 110 | | 2 | | | - 48 - 48 - 61 - 62 - 63 - 63 - 63 - 63 - 63 - 63 - 63 |
| 765 | | | | | | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | | ישו על על על היו |
| 740 7440 7 | | i - o o o o o o k k k o o o io o o o o o o | | | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 00000000000000000000000000000000000000 | 1127 1127 1127 1127 1127 1127 1127 1127 | | | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | ###################################### | ישושו עות או ביו כיו כיו כיו כיו כיו כיו כיו כיו כיו כ |
| 744 775 900 744 744 745 900 744 745 746 746 746 746 746 746 746 746 746 746 | | O D O D D D D D D D O O IO IO O O O O O | | | | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | 4 1 4 1 8 8 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | 4 V 1 C C C C C C C C C C C C C C C C C C | |
| 7444 7664 801 724 7664 801 724 7664 801 725 7664 766 715 7664 766 7165 766 766 7166 766 766 716 766 766 716 766 766 716 766 766 716 766 766 716 766 766 716 766 766 717 766 766 718 766 766 718 766 766 718 766 766 718 766 766 718 766 766 718 766 766 718 766 766 718 766 766 | | o o o o o b b b b o o o o lo o o o o o o | | | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 1000 0000 0000 0000 0000 0000 1000 100 | M M M M M M M M M M M M M M M M M M M | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | #) m) m, m, m, m, m) m, |
| 722 722 722 723 723 723 723 723 723 723 | | | | | | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | | 7 7 7 7 8 8 8 0 0 0 0 0 7 7 7 7 7 7 7 7 | | 00000000000000000000000000000000000000 | ים או שו היו היו היו היו היו היו היו היו היו הי |
| 724 715 716 716 716 717 718 708 708 708 708 708 708 708 70 | | 0 h h h a a a a a a a a a a a a a a a a | | | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 000000000000000000000000000000000000000 | | 0.007.000.000.000.000.000.000.000.000.0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | 3 (|
| 712 743 774 774 778 778 778 778 778 778 778 778 | | h h h a a n in n a a a a m n n | | | 0013 0013 0000 0000 0000 0000 0000 0000 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0000 0000 0000 0000 0000 0000 0000 0000 0000 | | 222211111111111111111111111111111111111 | 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 6 0 4 0 8 0 8 0 8 0 8 0 8 0 8 0 8 0 8 0 8 | |
| 712 712 712 713 714 705 714 717 717 717 717 717 717 717 | | a a n in n a a a a m m n | | | 00000000000000000000000000000000000000 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 000000000000000000000000000000000000000 | | | 11 | 0 | רו או עו עו עו או הו |
| 708 738 765 705 738 765 765 765 765 765 765 765 765 765 765 | | 0000000000000000 | | | | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 070 11 10 00 00 00 00 00 00 00 00 00 00 00 | | 0 0 0 4 4 4 6 6 6 0 0 0 0 0 0 0 0 0 0 0 | | 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | ו או עוד עוד עוד ליון ויון ויון ויון ויון ויון ויון ויון |
| 705 705 705 705 705 705 705 705 | | 000000000000000000000000000000000000000 | | | | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 075 1. 0071 1. 0060 1. 0057 1. 0051 1. 048 1. | | | 200000000000000000000000000000000000000 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | ושו עו עו עו או וח וח וח וח וח וח וח וחן וח וח |
| 600 | | 0 10 10 4 4 4 M M M | | | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 030 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 000000000000000000000000000000000000000 | | | | 00 | ישו עוד עוד או הוו ליו ליו ליו ליו ליו ליו ליו ליו ליו ל |
| 600 722 750 600 600 711 722 750 750 750 750 750 750 750 750 750 750 | | 10 4 4 4 M M M | | | 0 | 028 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 000000000000000000000000000000000000000 | | | | 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | ואו ערו ערו או או נייו נייו נייו נייו נייו נייו ני |
| 600 722 700 7450 600 711 711 745 600 711 711 745 600 710 710 745 600 700 710 710 710 710 710 710 710 710 7 | ŀ | 4 4 4 M M M | | | 0 m 0 k 4 m 6 6 | 019 1 | 0000 | | 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | 200 4 200 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | m m m m m m (4 (4 14 14 14 |
| 600 4 711 7 7 7 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | | M M M | | | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 016 | 0.55 | | 71.1 | 1.2.2.1 | 25.5.1 | שו עו עו עו עו וא וא וא וא וא וא |
| 666 71 71 74 8 74 8 74 8 74 8 74 8 74 8 74 | ŀ | 4 M M M | | | 470.077 | 013 1. | 048 1.048 1. | | | 22.2 | 25.25. 1.25.2. 1.25.4.2. | P) P) (U (U IU IU IU |
| 601 674 711 745 746 746 746 747 748 672 693 645 645 646 646 646 647 646 647 648 648 648 648 648 648 648 648 | | | • • • | • • • | 479. 173. 869. | | 048 1. | 942 | 91.1 | 1,21 | 254 1 255 1 2 2 2 2 1 1 2 2 2 2 1 1 2 4 5 1 1 2 4 5 1 1 2 4 5 1 1 1 2 4 5 1 1 1 2 4 5 1 1 1 2 4 5 1 1 1 2 4 5 1 1 1 2 4 5 1 1 1 2 4 5 1 1 1 1 2 4 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 30. 20. 20. 20. 20. 20. 20. |
| 675 676 677 707 708 708 708 708 698 698 698 698 698 698 698 698 698 69 | | 200 | • • | • • | 890 | 010 | 040 | | 0 | 1.20 | 246 | 204 201 201 |
| 672 702 732 662 692 732 653 663 713 653 663 693 632 661 663 626 656 666 617 666 676 | | 1 | • | • | 990 | 007 | | - | | 200 | 1.245 | 291 284 |
| 672 702 732 662 692 722 655 665 705 638 668 705 638 661 662 621 651 661 617 646 676 | | 000 | • | • | | 200 | 030 | : - | | 200 |) | 28H |
| 665 666 676 672 661 661 661 661 661 661 661 661 661 66 | | . 627 | • • | • • | 696 | 999 | 037 1 | - | | 1.10 | 1 .242 1 | |
| 645 645 646 645 645 645 645 645 645 645 | | .616 | | • | 952 | 1 986 | 025 1. | | 1.1 | 1.16 | 1 .229 1 | .275 |
| 638 668 698 632 661 652 626 686 686 621 651 651 613 646 672 | | 709 | • | • | 942 | | 014 | - - | | 1.17 | 2000 | |
| 632 661 652 626 686 686 621 651 681 617 646 676 | | 701 | • • | • | 925 | | 996 | - | | | 1.200 | |
| 621 651 681 617 646 676 613 642 672 | | 785 | • | • | 916 | • | 990 1. | - | 1.10 | 1.1 | 1.192 1 | .237 |
| 617 646 676 613 642 672 | | 011 | • | • | 216. | • | 984 1. | | | 41.1 E1.1 | 1.185 1 | (A (A |
| 3/0° 3.0° 610 | 1 | .769 | 801 63 | | -902 | | 973 | - | | -13 | 1,173 | -19 |
| 609 638 668 | | 100 | • | • • | 803 | • | • • | | 0 | 1.12 | 1,163 | 208 |
| 602 631 661 | | .753 | • | • | 888 | | • | | 1.07 | 1.11 | 1,155 1 | _ |
| 501 620 640 | | 100 | • | • | 878 | • | • | | | | | 192 |
| 586 615 645 | | .736 | 1 |] | 198. | | 1 | - | 1 05 | 1.00 | 135 | 1.80 |
| 607 636 | | 732 | • | • | . 66.4 | 808 | • | | | 0.0 | 1,130 | 174 |
| 575 604 633 | | 724 | • • | • • | 855 | • | • | • • | 10. | 1.07 | 1,121 | 165 |
| 571 .600 .630 | | .721 | • | • | .851 | | • | • | - | 1.076 | 1.118 | .162 |
| 566 505 624 | | 715 | 1 | | 900 | | 1 | | 500 | 6 6 | | |
| 584 613 | | 100 | 50 | • • | 93. | • | • • | | | 9 6 | 1 000 | 142 |
| 547 576 605 | | 969. | 27 | • | .825 | • | • | • | 9 1.00 | 3 | 1,089 1 | 132 |
| 5057 . 5565 . 554 555 | | 900 | | • | . 613 | • | • | 0. | 9 | 1.034 | | 119 |
| 529 ,558 ,587 524 ,552 ,581 | | .677 | 708 739 | 772 | 7 905 | • | • | 010 | 47 .986 | 1,025 | 0 0 | 011. |
| 519 548 577 | | .667 | 96 | 1 | 795 |] | • | | | 5 | S C | |
| . 5845 . 673 840 . 541 | | .663 | • | • | 101 | .825 | 9.099 | 9 (| 6. | | 9 6 | 0 |
| 539 558 | | 000 | 90 | • | 788 | N - | | 0 0 N 0 | 0.0 | 000 | 0 4 6 | 0 (|
| 981 605 184 | | .627 | • • | • • | . 753 | - 0 | 821 .8 | | . n | 9 6 | 5 0 | 052 |
| 502 530 | | 619. | 50 | • • | 745 |) N | | | | . 0 | - 0 | Ď ě |

FACTORS OF OWE-SIDED TO FRANCE ITTIES FOR A NORTAL DISTRIBITION

Proportion of Population Covered ->

Ŷ\

Judentakes of

| | | £. | . 67 | . 66 | | 00. | .01 | .92 | 6. | • | . 05 | 96. | 10. | • | 0 | 600 | 000 |
|-------------|-----|---------|-------|-------|-----------|-------|-------|--------|-------|-------|----------|----------|---------|----------|------------|-------|---------|
| ž | m « | 0000 | 3.919 | 3.954 | 4.102 | 256 | _ | • | .0 | 0.1 | 5,311 | e . | • | 6.523 | 7.340 | 6.092 | 9.651 |
| # # ? 2 | | 2,387 | 2.467 | 2,552 | | 2,742 | - | • | 3,000 | 3, 23 | o. • | 300 | 000 | 1.00 | 5.438 | 5.000 | ٦. |
| Z | | 2,170 | 2,243 | 2,320 | | 2.494 | - | • • | 2,812 | CA | 8 | 26 | • | 3,779 | 4.242 | 000 | 5.55 |
| z | | 2.028 | 2.097 | 2,170 | • | 2,333 | - | • | 2,631 | 17 | | .05 | ~ | 3,536 | | m | • |
| z z | | 1.928 | 1.004 | 2,063 | 5 | 2,219 | 2,305 | 90.5 | 2,503 | 2.62 | 2,754 | 0.0 | 3,108 | 3,368 | 3,782 | 4.164 | • |
| z | | 1.702 | 1.654 | 1.920 | • • | 2,066 | -1 - | 9 | 2,333 | 2 PC | 2.568 | • | 기약 | 100 | 3.532 | 980 | 14.4 |
| ž | | 1.744 | 1.805 | 1.808 | | 2,011 | 000 | 2,177 | | • | 2,502 | 2.647 | | 3,065 | 3.443 | 2 | |
| z : | | 1 703 | 1.763 | 1.826 | • | 1.066 | *** | 2,129 | | ~ | 2.448 | | ۲. | • | 3,370 | 3,712 | • |
| z . | | 1.669 | 1.728 | 1.790 | • | 1.928 | 000 | 2.088 | | ~ | 2.402 | | ۲. | • | ě. | 3.645 | • |
| # Z | | 9 9 | 1.698 | 7.50 | • | 699 | | • | | ru r | 2,363 | 6 | • | | N (| 3,587 | 4.273 |
| 2 2 | | 505 | 2/00 | 1 700 | • • | 1 842 | - 1 | 1 000 | | 1 | 2 200 | 4 | ๆ" | 9 | 7 | | |
| ž | | 1.572 | 1,629 | 1.688 | 1,752 | 1.010 | | 1.973 | 8 | 2,159 | 2,272 | • | 2,570 | • | | | |
| Z | | 1,554 | 1.610 | 1.669 | 1,732 | 1.799 | | 1,951 | 7 | 2,137 | 2.249 | • | ຸເ | • • | - | | 4.078 |
| Z | | 1,538 | 1.593 | 1,652 | 1,715 | 1.781 | | 1.932 | ~ | 2,116 | 2,227 | • | 2,520 | • | 6 | 3,391 | 4.042 |
| ž | | 5223 | 1.578 | 1.636 | 0000 | 765 | | . 015 | N - | 2.007 | 2,208 | • | 2.498 | • | • | 3,363 | |
| | | 100 | 552 | 1 600 | 1691 | 1 236 | | 200 | ╬ | 2000 | 201.00 | • | 2 4 6 | • | • į | 3.338 | 3.970 |
| 2 | | 1.600 | 1.540 | 1,597 | 1.659 | 1,724 | | 1.871 | 926 | 2.050 | 2,159 | | 2.444 | 2,654 | 2.087 | 3,203 | 3.026 |
| ž | | 1.476 | 1,530 | 1.586 | 1.647 | 1,712 | | 1,859 | | 2,037 | 2,145 | • | 2.429 | | | 3,273 | 3.403 |
| ž | | 1.466 | 1.519 | 1.576 | 1.637 | 1.701 | | 1.8.7 | - | 2.025 | 2.132 | • | 2.415 | • | • | 3.255 | . 66 |
| Ž ; | | 1.457 | 1.510 | 9.20 | 1.627 | 1.601 | | 1.836 | - | 2.013 | 2.120 | • | 2.401 | • | • | 3,238 | |
| | | | 100.1 | 1.557 | 1.018 | 1.082 | 1 | 1.820 | | 2.003 | 2.109 | • | 2.389 | • 1 | • | .22 | |
| 1 I | | 1.433 | 1.486 | 1.541 | 1.601 | 1,665 | 1.734 | 1.808 | 1.801 | 1.003 | 2.090 | 2.213 | 2.367 | 2.572 | • | 0 0 | 3.826 |
| ž | | 1,425 | 1.478 | 1.534 | 1.593 | 1,657 | 1,725 | 0 | 1.882 | 1.974 | .0 | 20 | . " | • • | | 1 | |
| ž | | 1.419 | 1.471 | 1.527 | 1.586 | 1.650 | 1.718 | 79 | 1.874 | 1,966 | .07 | | ٣. | | • | 1. | |
| ž : | | 1.412 | 1.465 | 1.520 | 51 | 1.643 | 1.711 | 1.785 | 90 | 1.956 | 0 | ٦. | Τ. | • | • | .15 | • |
| ž . | | | 1.450 | 216 | 1.573 | 1.636 | 1.704 | 7 | S | 1,951 | • | - | 7 | " | 9 | • | |
| z z | | | 1.453 | 900 | 0 4 | 1.630 | .699 | 1.77 | 92 | 1.944 | ॰ ॰ | ~ | | . | • | 13 | .7. |
| | | 1.300 | 1.442 | 1.407 | 1.556 | 1.618 | 1.686 | 750 | | 000 | | | 2.314 | | • | 7: | 3,729 |
| Z | | 1,385 | 1.437 | 1.401 | 1.550 | 1,613 | • | 13 | | 9 | .02 | : -: | . ~ | • | | | • |
| Z : | | 1,361 | 1.432 | 1.487 | €0 . | • | 1.675 | 1.748 | 82 | 1.918 | N | 2,143 | • | 2.492 | 2.808 | 3.098 | 3.698 |
| E Z | | 1 276 | 929-1 | 780 | 1 . 3 . 0 | | 1.670 | 1.743 | 1.823 | 1,913 | <u>.</u> | - | 4 | • | • | 3.090 | 3.688 |
| Z | | 1.368 | 419 | 1.473 | 1.531 | 9 | 1.660 | 7 4 4 | | | 5 6 | • | | • | ~ 1 | 3.082 | 3.679 |
| Z | | 1.31 | 1.415 | 1.469 | 1.527 | 1.589 | • | 7.2 | 0 | 1.897 | 2,000 | 2.120 | 2.269 | • | • | - « | |
| ž | | 1,360 | 1.4.1 | 1.465 | 1,523 | 58 | 65 | 1.724 | 1.803 | 1.893 | 6 | | .26 | ٠. | | 6 | • |
| Z : | | 1,356 | 1.407 | 1.461 | 1.519 | 1.581 | 1.647 | 1.719 | 1.709 | 1.868 | 0 | ⁻• | . 25 | ٠. | • | 3.06 | • |
| z | | | 1.00 | 254 | 1.515 | 2 | 1.643 | 1.715 | - 795 | • | 1.986 | • | ٧. | • | 2.761 | n | • |
| 2 Z | | 300 | 200 | | 716.1 | 1,573 | 0.00 | 12. | 1.701 | | 8 | | .24 | • | • | 3,041 | 0 |
| 2 2 | | | | | 000 | 6000 | 00001 | 10.00 | 0 | 6 | 6 | • | 2.244 | • | • | m | • |
| ! ! ! 2 | | 245 | | | 200 | 2000 | 2 6 | 407. | 50/1 | 2/0.1 | 1.973 | | . 23 | 2.435 | 2.745 | 'n | • |
| 2 2 | | 717 | 305 | 1.6.1 | | | | | 776 | 446 | *** | 9 6 | | • | • | 3.024 | • |
| Z | | 1,3,3 | 1.374 | 1.427 | 1.484 | 1.545 | 5 | 1.69.1 | . 9 | 1.848 | | . 0 | . 7 | • | 2.713 | , | 2000 |
| Z | 90 | 1.3 2 | 1.362 | 1.415 | 1.472 | 1.532 | 50 | 1,668 | 1.746 | 1,833 | 1.933 | ١°. | | , , | • | | 'n |
| 7 | 6.5 | 1 .3C 1 | 1,352 | 1.404 | • | 1.521 | 1.586 | n | 1,734 | 1.621 | 1.920 | | 2,181 | 2,373 | 2,677 | 2.968 | 3,531 |
| # (Z | 0 4 | 1.293 | 3.82 | 305 | 1.451 | 1.511 | 1.576 | 1.646 | 1.723 | | | 2,025 | 2,169 | 2,360 | 2,662 | 2.939 | 3.513 |
| ! !! ! Z | 0 | 1.277 | 1.327 | 1.379 | 10.40 | | | 7 0 | - 0 | 200. | | • | 2 . 158 | 2.3.6 | 2 639 | 2.926 | 904.5 |
| ; | 1 | | | 1 243 | 1 434 | 1 425 | | | | | | 1001 | 130 | • " | 2 437 | 2 000 | 3 4 4 5 |

| # 1 2 2 | : : | 0.00 | 1.698 | 1.759 | 1,825 | 1.895 | 1.971 | 2,053 | 2,144 | 2,246 | 2,363 | . 2 | . • | | 3,257 | ימו | 4,273 |
|------------|-----|-------|-------|--------|-------|--------|------------|-------|-------|----------------|--------|------------|-------|--------|------------|-------|--------|
| Z | | 1.592 | 1.640 | 1,700 | 1,773 | 1.642 | 1.016 | 10 | : 8 | 2 185 | 2,299 | 4 N | ၛဂ | | 3.172 | 3.405 | 100 |
| ž : | | 1.572 | 1,629 | 1.688 | 1.752 | 1.819 | 1.893 | 0 | 2,061 | 2,159 | 2,272 | ~ | | | 3,137 | 3.456 | .11.0 |
| # # Z Z | | 1,538 | 1.593 | 1,652 | 1,732 | 1.781 | 1.854 | 1,051 | 2,039 | 2,137 | 2.227 | ~ ~ | 2.543 | • | 3,105 | 3,422 | 4.078 |
| ž | | 1 523 | 1.578 | 1.636 | 1,699 | ~ 1 | 1.837 | 1.915 | 2,001 | 2.097 | 2,208 | 2,338 | • | | 3.031 | 3,363 | 0 |
| i z | | 1000 | 1 552 | 1 600 | 160 | 200 | 1.821 | 0 la | 900 | 2,080 | 2, 190 | 2 | | • | 3.028 | 3,330 | 3.979 |
| Z | | | 1.540 | 1 597 | 1.659 | 1.724 | 1.704 | | 1.056 | 8.050 8.050 | 2,159 | ١,٠. | 2 | 2.654 | 2.987 | 3,293 | 3,926 |
| # # Z Z | | 1.000 | 530 | 986 | 1,647 | 1,712 | 1.782 | 1.059 | 0.0 | 2.037 | 2,146 | 2,272 | 2,429 | 2.638 | 2.969 | 3,273 | 3,003 |
| ž | | 1.457 | 1.510 | 1.566 | 1.627 | | 1.761 | 1.836 | 90 | 2.013 | 2.120 | . ~ | 2.401 | 2.609 | 2.937 | 3.238 | 000 |
| ž | - 1 | 1.000 | 1.501 | 1.557 | 1.618 | | 1.751 | 1.826 | | • 1 | 2.109 | ~ | • | 2.595 | 2.922 | 3.222 | |
| 8 (Z Z | | 1.40 | | 1,540 | 1.609 | 1.673 | 1.742 | | | 1.993 | 2.099 | | 2 | 2,563 | 2.908 | 3.207 | .62 |
| | | 1.425 | 1.478 | 1.534 | 1000 | 1.657 | 1.725 | 1.000 | 1.882 | 1.074 | 2.080 | 2.204 | 2,367 | 2.572 | 2.896 | 3,193 | 0 0 |
| Z | | 1.410 | 1.471 | 1,527 | 1.586 | • | 1.718 | 1,792 | 2 | 1.966 | 6 | ٠-, | | 2,550 | 2.672 | 3.168 | |
| ž z | | 1.412 | 1.465 | 1.520 | 1.579 | • | 1.711 | 1.785 | 1.867 | 1.958 | 90 | ٦. | | 2.541 | 2.862 | 3,156 | |
| e z | | 900 | 1.450 | 1.514 | 1.573 | 1.636 | 1.704 | 1.778 | 1.859 | 1.951 | • | 2,178 | • | 2,532 | 7 | 3.145 | 3,753 |
| Z | | 1,395 | 1.447 | 1.502 | 1.561 | 1.624 | 1.691 | 1.765 | | 1.037 | 2.041 | 2.163 | • | . או | • | 3,135 | • |
| 2 | | 1.390 | 1.442 | 1.407 | 1,556 | • | • | 1.759 | 1.040 | 1.930 | 2.034 | 2,156 | 2.306 | • • | 2.824 | 3,115 | 3.718 |
| 8 (2 2 | | 1,385 | 1.437 | 1.401 | 1.550 | • | 9 | 1,753 | 1.834 | 1.924 | 9 | 2,149 | • | • | • | 3.106 | .70 |
| 1 1 2 Z | | 1 376 | 1.432 | 1.487 | 0 0 0 | 000 | 1.675 | 7.48 | 1.628 | 916 | • | 2,143 | ٠,٠ | • • | • | • | 69. |
| Z | | 372 | 123 | 1.477 | 1,536 | 1.598 | - 👁 | 1,738 | 1.818 | 906 | • • | 2,131 | ١. | ١. | ٠, ۰ | 0 | 3.670 |
| Z : | | 1.368 | 410 | 1.473 | 1.531 | 0 | 9 | 73 | 1.813 | 1.902 | 0 | 2,126 | 5 | ٠. | • | .0 | |
| Z Z | | 1.364 | . 415 | | 1,527 | . 589 | 1.656 | 1.728 | 1.608 | 1.897 | • | 2,120 | 2,269 | 2,467 | • | 8 | |
| ž | | 1,356 | 1.407 | 1.461 | 1.519 | 9 0 | 1.647 | 719 | 1.799 | 988 | | 2,110 | , 4 | 2,455 | • | 3,053 | 0.49 |
| Z | | 1,353 | 1.404 | 1.457 | 1,515 | 1.577 | | 1,715 | 1,795 | 1.864 | | 2,105 | . ~ | • | • | 3.047 | 3,638 |
| 2 2 | | 340 | 00 | 1.454 | 1,512 | 6 | P 1 | 1,711 | 1,791 | 1.660 | 1.981 | 2,101 | | | | | 63 |
| 8 E | | 945 | 1.397 | 1.450 | 1.508 | 1.569 | | 1.708 | 1.787 | 1.876 | 1.977 | 2.096 | 9 | • | ~ I | 3.035 | 3.624 |
| ! ! ? Z | | 340 | 100 | | 1.502 | 0 4 | 1.620 | 400 | 770 | 2/0-1 | 1.973 | 2002 | | 2 4 30 | • | • | 0 1 |
| ž | | 1,337 | 1.300 | - 4 | 1.498 | 1.559 | 1.625 | 1.697 | 1.776 | 1.864 | 1.965 | 2.084 | 2,231 | 2.426 | 2,735 | , , | 3,605 |
| ž | - 1 | 1,323 | 1.374 | 1.427 | 1.484 | 10 | 1.610 | 3 | 1.760 | 0 | 8 | 9 | ٠, | 2.406 | | 2 | 3.576 |
| ž z | | 1,312 | 1.352 | 1,415 | 1.472 | n i | 8 | | 1.746 | 2 | 1.933 | • | • 1 | 2,386 | | ~ | , n |
| 8 B | | 1,203 | 1.342 | 1,305 | 1000 | 1,521 | 1.576 | 1.646 | 1.723 | 1.810 | 1,000 | <u>،</u> ٥ | 7.7 | 2,360 | | | 3.53.3 |
| Z | | 1.265 | 1,334 | 1,366 | 1.443 | 30 | 8 | 1.637 | 1.714 | 1.800 | 8 | • | - | 2,348 | 2.649 | | 3.496 |
| II (| | 1.277 | 1 32 | 1,379 | 1,435 | 1.495 | 1.559 | 1,629 | 1.706 | 1.792 | 1.890 | 2.005 | 7. | 2,336 | 2.638 | 2,913 | 3,481 |
| z z | | 1.265 | 1 314 | 1.366 | 1.422 | | 1.545 | 0 0 | 100 | 1.776 | 1.674 | • 1 | | 2.368 | 2 618 | 2.901 | 3.400 |
| | 93 | 1,260 | 1,309 | 1,360 | 1.416 | 1,475 | | 1.608 | | 1 770 | 1.867 | 1.982 | : -: | 2,312 | 2.609 | 2.081 | 3,445 |
| | | 1,255 | 1.304 | 1,355 | 1.411 | | 53 | 1.603 | 0 | 1.764 | 1.861 | 1.976 | ~ | 2,304 | 2.601 | 2.873 | 3.435 |
| | 200 | 2 4 5 | 1 287 | 338 | 100 | 1.460 | | 0 6 | 1.000 | 1.753 | 1.950 | 1.064 | - 0 | 2.291 | 2.587 | 2.857 | 3.417 |
| | 00 | 1,232 | 1.280 | 1,331 | 1,387 | 1,445 | 1.508 | 5.0 | າທ | 1.736 | 1.832 | 1.945 | , 0 | • • | 2.56 | 2.833 | 3,388 |
| ŀ | 0,1 | 1,226 | 1.274 | 1,325 | 1.380 | 1.439 | 1.501 | 57 | 3 | 1.729 | 1.825 | 1,938 | | • | 2.554 | 2,022 | .37 |
| | 0 0 | 1.220 | . 269 | 320 | 1,375 | . A 33 | • | 56 | | 1.722 | 1.016 | 1.931 | 8 | • | 2.546 | 2,013 | ۳. |
| | 20 | 1.211 | 1.260 | 0.0 | 1,365 | | 1.405 | 0.00 | 1.628 | 1.711 | 1.807 | 1.010 | 2.057 | 2.201 | 2.53 | 2,405 | |
| | 0 | 1 208 | 1,256 | 306 | 1,361 | - | | 'n | • | 1.707 | 0 | 1.914 | 0 | . ~ | 2,525 | 2,791 | • • |
| | 8 | 1.204 | 1,252 | 1,303 | 1,357 | 1,415 | 4 | \$ | 1.619 | ~ | 2 | | • | | 2,519 | 2.784 | 3,332 |
| | 0 0 | 1.201 | 1 240 | 1,299 | 1.354 | 1.411 | • • | • | 1.615 | 1.698 | 1.793 | 1.905 | 2.042 | | 2.614 | 2.779 | 5 |
| | 00 | 1.177 | 1.225 | 1.75 | 1.329 | 3.0 | 1.448 | - | 1.588 | 6.0 | 1.764 | 1.875 | • • | : -: | 2.477 | 2.739 | • • |
| | 00 | 1.164 | 1.211 | 1.761 | 1.315 | г. | • | 0 | 1.572 | S | 7.4 | 1.857 | • | - | 2,456 | 2.716 | .25 |
| | 000 | 1.155 | 1.202 | 255 | 1.395 | 1.362 | N - | മെ മ | 1.562 | 1.643 | 1.736 | 1.846 | 1.980 | - | 2.442 | 2.700 | 4 |
| | 0 | 143 | 200 | 1 2 10 | 1.203 | רחון נ | : ; | DI P | 3 | ט ני | 1 722 | 200 | 200 | 4- | 2 4 2 3 | | ٠¦٠ |
| | | 1,139 | 1.186 | 1,235 | 1,288 | 1,344 | 1.405 | 471 | 1.543 | | 1.717 | 1,625 | 9 | 2,136 | 2,417 | 2,673 | 3,203 |
| | 006 | 1,135 | 1,182 | 1,231 | 1,285 | | 0 | SO. | 53 | | 1,712 | 1.821 | 1.954 | · | 2.471 | . 66 | |
| - 0 | 000 | 1.132 | 0 1 1 | 1.428 | 1,281 | າເ | 398 | ω ο | 200 | 9 | ~ 4 | 1.617 | 920 | ٦, ۲ | 4 1 | 9 | |
| 20 | 000 | 1.068 | 1 134 | 1.182 | 1,234 | 1,289 | 1.340 | 1.413 | 0 0 | n n | 1.654 | 1 760 | 200 | | 2 331 | | 3,121 |
| 1 | | • | • | • | • | 1 | • | • | • | · | | • | | | • | 2000 | , , , |

TABLE II
FORS OF OVE-SIDED TOLEPANCE LIWITS FOR A NORMAL DISTRIBITION

95% CONFIDENCE

portion of Population Covered

| | | Proport | rtion of | Populatio | on cover | 1 2 3 3 3 3 3 3 3 3 3 3 | | | | | | | | | | | | | |
|------------|-----|---------|----------|-----------|-------------------|--------------------------------|----------|-------|-------|-------|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | • 20 | . 51 | . 52 | 53 | • 0 | 9 | • 56 | .57 | 95. | 0.00 | 9. | • 63 | . 62 | .63 | • 9 • | . 65 | 99. | .67 |
| Z | E I | .686 | 1.751 | 1.918 | 1.866 | 1,955 | £ .025 | 00 | 2,170 | 3 | .32 | 39 | . 47 | ĸ. | | 2.727 | 2,813 | 2.901 | • |
| I Z | _ | .177 | 1.223 | 1.270 | 1.317 | 1,366 | 1.415 | • | • | .56 | .61 | .67 | | - | • | • | 93 | 2.013 | 2.074 |
| ¥ Z | | . 953 | . 993 | 1.032 | 1.072 | 1,115 | 1.154 | - | 1,239 | 28 | 32 | 37 | 7 | 0 | 50 | 1,555 | 9 | 1.653 | • |
| K Z | | .623 | . 856 | .894 | 160. | 996 | 1.005 | 1.043 | 1.001 | • | 5 | 1.109 | 1.239 | 1.281 | 1,323 | 1,365 | 1.408 | 1.453 | 1.498 |
| 1 2 | | 136 | . 768 | . 802 | 000 | .870 | . 005 | .041 | .977 | 1.013 | • | 8 | 10124 | 1.163 | 1.202 | 1.241 | 28 | 1.323 | 1.364 |
| u Z | | 0.40 | 201 | . 73 | .767 | 000 | D . | .867 | 100 | 986 | | 8 | 1.042 | 1.076 | 1.115 | 1,153 | ο. | 1,230 | 1.270 |
| Z | J | 050 | 1691 | .682 | •714 | .740 | . 778 | . 911 | .843 | .877 | | .945 | .979 | 1.014 | 1.050 | 1.086 | 1.123 | 1.160 | 1.198 |
| 2 : | | 200 | .610 | 9. | .671 | .702 | 40. | 165 | - 100 | 0000 | . 863 | 969. | .020 | • 964 | 966 | 1.033 | 1.069 | 1.105 | |
| u Z | | 0 0 | 0/0. | 0 1 | 000 | 100. | ٠ (ا | 97. | 00/- | 164 | . 623 | . 600 | | 226 | 000 | 000 | 1.025 | 1.060 | 1.096 |
| 1 Z | | 910 | | 770 | | 160. | 200 | 200 | 728 | 657 | 167. | .822 | 000 | - 084 | 020 | 400 | 986 | 1.023 | 1.058 |
| 2 2 | | | | 300 | - 0 - 6 - 6 | | | | | 700 | ۲ | 2 4 | 979 | 900 | | . 023 | | 100 | 1.026 |
| 7 : | | 7 4 | 700. | 700 | 1 4 | | | 0 0 | | | 000 | | 100 | 200 | ** | | 000 | 465 | 800 |
| 2 | 1 | 2 | | 10. | 200 | 400. | 0000 | 200 | 100 | 199 | ما⊲ | | | 010 | 700. | | 100 | 0 | .073 |
| 2 2 | | E 6 4 | | 470 | 100 | 100 | | 000 | 622 | | | 710 | 742 | 773 | 404 | | | | 300° |
| 2 | | 014 | EP 4 | 466 | 404 | 522 | 550 | 570 | 609 | 637 | • | 9 | 726 | 737 | 700 | 0 | | | 210 |
| Z | | 398 | 425 | 453 | 184. | 909 | .537 | 566 | 594 | 623 | 653 | | .712 | 742 | 773 | 000 | 936 | | 000 |
| z | | 387 | 414 | . 442 | 469 | 104 | . 525 | 554 | 585 | .611 | 000 | 699 | 669 | 729 | 10 | 791 | 822 | 65 | 988 |
| 2 | | 376 | *0* | 431 | 450 | 984 | .514 | 543 | 571 | 009 | 629 | 659 | .687 | 717 | 7.4 | 778 | 000 | . 641 | 673 |
| Z | | 367 | 304 | .421 | 000 | 476 | .50¢ | 532 | 561 | 589 | 619 | 547 | 676 | 200 | 736 | 767 | 708 | 820 | 1961 |
| 2 | | .358 | 17 80 | .412 | 044. | .467 | .405 | . 523 | . 551 | .579 | 809 | .637 | 999. | 969. | .726 | . 756 | 787 | 919 | 950 |
| Z | | 350 | 377 | *0* | .431 | 459 | 486 | .514 | .542 | .570 | . 599 | .628 | .657 | .686 | 716 | 746 | .777 | 808 | 0 0 0 |
| H Z | | 342 | 369 | 396 | .423 | .451 | 844. | 506 | .534 | . 562 | .590 | 619 | 849. | .677 | 707 | 3 | .768 | 799 | 630 |
| ž | | 333 | .362 | 380 | .416 | E * * . | 144. | 408 | . 526 | 584 | .582 | .611 | 0.00 | 699 | 669 | 729 | . 759 | 790 | .621 |
| # Z | | .328 | .355 | .382 | 604. | .436 | .463 | . 401 | .519 | .547 | .575 | .603 | .632 | .661 | 109. | .721 | .751 | .782 | .613 |
| II Z | l | 325 | 349 | 375 | 204 | 420 | .457 | 484 | 215 | 540 | 568 | 296 | .625 | .654 | 189. | .113 | . 183 | *** | 609 |
| H Z | | 316. | E 4E. | .369 | 396 | .423 | .450 | .478 | 505 | . 533 | .561 | 590 | .618 | .647 | .677 | .706 | 736 | .767 | 798 |
| # 2 | | 310 | 337 | 363 | 900 | 417 | *** | 472 | 60. | . 527 | . 555 | .583 | \$12 | 100 | .670 | 100 | 730 | . 160 | 701 |
| H Z | | 305 | 333 | 989 | 385 | 215 | 000 | 999. | . 603 | .521 | .540 | .577 | 909. | 638 | •99• | .603 | .723 | . 753 | -384 |
| ı Z | | 200 | 326 | 555 | 910 | 90 | F . | . 661 | | .516 | . 544 | .572 | .00 | .629 | .658 | .687 | .717 | .747 | .778 |
| Z | - | 502 | 175 | 348 | 37. | 100 | 976 | 665 | 683 | 210 | 922 | 995 | 595 | .623 | .652 | .682 | .711 | .742 | .772 |
| # I | | 286 | | | | | | | | 0 0 | | 100 | | 9 | | 929 | .706 | .736 | 767 |
| 2 2 | | 282 | 000 | | 192 | 187 | | | 9 | 90 | 200 | 0 10 | | 200 | 7 | 200 | 107 | 131 | .761 |
| Z | | 278 | 300 | OFF | 357 | 900 | 014 | 437 | *0 | 492 | 510 | 547 | 575 | 000 | 632 | | | 721 | n u |
| Z | | .274 | 300 | 326 | .353 | 379 | 404 | 433 | . 60 | 487 | 515 | 543 | .571 | 590 | 629 | 657 | 687 | 7.10 | 747 |
| ž | | .270 | .296 | .322 | .349 | 375 | .402 | 429 | .456 | . 483 | .511 | .539 | .567 | 595 | .624 | 653 | .682 | 712 | |
| ¥ | | .266 | .293 | .319 | .345 | .372 | 398 | .425 | 794 | .430 | .507 | .535 | .563 | 165. | 029 | .649 | 678 | 804 | 138 |
| u Z | | . 263 | . 289 | .315 | . 342 | .368 | 60 P | . 422 | 0 | . 476 | . 503 | .531 | .559 | . 587 | .616 | .645 | .674 | .704 | .734 |
| 2 | | 092. | 286 | 315 | | 292 | 105. | | 5 | .472 | . 200 | .527 | . 555 | .584 | .612 | .641 | .670 | .700 | .730 |
| H I | | 007. | 202 | 100 | 0 0 | 700 | 000 | 0.00 | | | 96 | 25. | 255 | 000 | 609 | .637 | .667 | 969. | .726 |
| 2 | | | | | | 200 | | | | | 0 0 | | | | 000 | r) I | . 663 | 200 | .723 |
| 2 2 | 1 | 24 | 226 | 000 | 426 | 38.2 | 370 | | 250 | 480 | | 41.8 | 0.00 | 27.5 | 200. | 150 | .000 | 689 | .719 |
| # # ? 2 | | 245 | 271 | 207 | 323 | 350 | 376 | 000 | 430 | 457 | | | 9 60 | 100 | | 424 | 000 | 000 | . 710 |
| 2 | | 242 | 268 | 204 | 320 | 36.7 | E A A | 00 | 121 | 10 | | 808 | | | • 0 | | 200 | 2 6 | 21/1 |
| Z | | 240 | 266 | 205 | 318 | 346 | 371 | 307 | 424 | | 474 | 206 | F F S | | • • | | | | |
| ž | | 237 | 263 | 289 | 315 | 342 | 368 | 303 | 421 | 0 * * | 874 | 503 | 530 | 800 | 587 | | | 444 | |
| Z | | . 226 | . 252 | .278 | .304 | 330 | .356 | .363 | 400 | 436 | .463 | 400 | 916 | 946 | 574 | 209 | 631 | 999 | 000 |
| Z | | 216 | 242 | .267 | ,293 | .320 | 346 | 372 | 300 | 425 | .452 | .480 | .507 | 535 | .563 | 391 | .620 | 0.0 | 9/9 |
| # 1 Z 2 | | | 200 | 403. | 233 | - 10. | 755° | 505. | 000 | • | M 4 4 4 4 | . 70 | 004 | 525 | . 553 | | .610 | 639 | 999. |
| # # Z Z | | 200 | 212 | 244 | 270 | 200 | 322 | 555 | 196 | | . 4 35 4 2 4 | 294 | 004 | .517 | *** | .573 | .601 | 630 | .659 |
| Z | 6 | 186 | 212 | .237 | 263 | 080 | 313 | 341 | 368 | 0 | | | × 0 × | | C 7 6 | 900 | 200 | .622 | .651 |
| 2 | | 180 | 206 | 232 | 257 | 283 | 300 | 333 | 362 | | 414 | | | 200 | 000 | 000 | 000 | 610. | *** |
| | Н | | XXX | 3 8 2 | ABR | | | | | | | • | | | | 30C* | 080. | 800 | .637 |

| | • | | ١ | |
|--|---|---|---|--|
| | • | , | i | |

| | _ L | | | _ | | . 1 | | | | | . = | ٦ | | | | _ | a. L | | | | | . L | ما | _ | | | . i.~ | • | ~ | | . ~ | - اسا | n ~ | _ | | L | _ | | | این | h | ۸ | | w ^ | ماد | o. | | . ~ | _ 1 | | | | |
|-------|-------|----------|------|------|-------|------|--------|-----|-----|-----|-----|---------------------------------------|-----|-----|------|------|-------|------------------|--------|----------|------|------|------|--------|------|--------------|-------|--------|----------|------|------|------------|-------|------|--|--------|------|---|-----|-------|------|-----|--------|---|-----|--------|------------|------|------|--------------|-------|-------|------|
| 966 | .973 | 200 | 916 | 000 | . 886 | .87 | | | 830 | 821 | 813 | 603 | 798 | 101 | .784 | 877° | . 772 | 9 | .756 | .751 | 747 | 138 | 134 | .730 | .726 | 710 | 214 | .712 | 504 | 705 | 909 | .678 | 9.0 | .651 | 644 | 631 | .626 | .621 | 00 | . 596 | 595 | 581 | .577 | 573 | 566 | .555 | 300 | .518 | .511 | . 506 | 496 | 495 | .457 |
| 96 | 000. | 0.00 | | 667 | 424 | 100 | 678 | | 100 | 700 | 782 | 14. | 767 | 760 | • | 747 | .742 | 731 | 126 | .721 | 21.5 | HOL | 104 | .700 | 969 | 9 6 | 686 | .683 | 679 | 676 | 999 | 0.0 | 930 | .622 | 609 | 603 | 166. | 0 6 0 6 |) r | .569 | .563 | 553 | 540 | 0 4 60 E0 | 538 | .524 | 0.00 | .401 | 484 | . 478 474 | - 1 | .467 | 430 |
| .930 | . 907 | 980 | | .836 | . 822 | 609 | 108 | 777 | 768 | 730 | 6 | 74.3 | 736 | 730 | 723 | 717 | - | 701 | 969 | .691 | .687 | 87.8 | .674 | .670 | .667 | . 000 | .656 | .653 | .650 | .044 | 631 | 629 | 109 | 5.03 | 900 | 574 | .569 | | 540 | .541 | 535 | 525 | .520 | 517 | 510 | 964. | . 4 do | .463 | 456 | .451 | E 4 4 | 0 | .402 |
| .897 | .874 | 40.0 | 0 | 400 | . 791 | 6778 | . 767 | 746 | 737 | 720 | 721 | | 706 | 100 | 603 | 687 | .682 | 671 | 999 | .662 | .657 | 200 | 645 | .641 | 637 | . 63. | .627 | .624 | .621 | 0.0 | .602 | 165. | 573 | .565 | 9 20 20 20 20 20 20 20 20 20 20 20 20 20 | 546 | .541 | 524 | 510 | 513 | 507 | 404 | 403 | | 482 | .468 | | 436 | 429 | . 423 410 | • | .413 | |
| . 664 | -815 | . 624 | 7.00 | 773 | . 760 | .747 | . 730 | 716 | 707 | 000 | 109 | 989 | 677 | 670 | 999 | .658 | 652 | 642 | .637 | .632 | .628 | 629 | 616 | .612 | 609 | 505 | 599 | 595 | . 592 | 5.00 | 574 | .563 | 9 4 6 | 537 | 530 | 516 | .513 | 900 | 492 | 485 | .479 | 2.0 | 465 | 104 | 455 | 441 | 104. | 400 | 405 | 195. | 389 | .386 | .349 |
| .8. | . 610 | . 790 | 757 | 742 | .729 | 717 | • 100 | 9 | 677 | | 199 | 654 | 647 | | 635 | .629 | .623 | 0.0 | 608 | .604 | 000 | 105 | 587 | .584 | .580 | 775. | 570 | 267 | .564 | 550 | 546 | 535 | 517 | .509 | 502 606 | 490 | 485 | .480 | *9* | 458 | 452 | 442 | 438 | 484 | 427 | 414 | 0 0 | 382 | .375 | 0/5 | 362 | .359 | .322 |
| .001 | .779 | .759 | 726 | 712 | 669. | 1687 | .676 | 687 | 99 | 0 | 633 | 625 | 618 | 612 | 909 | 000 | 595 | 0 00 | .580 | .575 | .571 | 265 | 559 | 555 | 552 | | 542 | 539 | .536 | 500 | .518 | \$507 | 689 | .482 | 475 | 463 | 458 | . 453 455 | 437 | 431 | 425 | 415 | | * 0 4 • 0 4 | 401 | 388 | 9 4 6 6 | 355 | 340 | 5 6 6 | 336 | • 333 | .296 |
| .769 | .748 | 729 | 909 | 682 | 699 | 658 | .047 | | 019 | | 603 | 506 | 500 | 200 | 577 | 572 | .566 | 556 | 552 | .547 | | 535 | 531 | .527 | 524 | 126. | 514 | 511 | 508 | 900 | 064 | 480 | 462 | 454 | 448 | 436 | 431 | 426 | -11 | 404 | 398 | 389 | 385 | 377 | 374 | 361 | 100 | 329 | .322 | 715 | 310 | .307 | .270 |
| .738 | 4 8 | ` | 0 0 | o un | 0.00 | NI. | ~ (| | • 0 | | 575 | 568 | 561 | 555 | 540 | *: | 538 | 528 | 524 | 519 | 57.5 | 507 | 503 | .500 | 964 | 500 | 487 | +8+ | 104 | 478 | 463 | 452 | 435 | .427 | 421 | 400 | *0* | 905 | 384 | 378 | 372 | 362 | 358 | 4354 | 348 | 335 | v - | 303 | 296 | 287 | 284 | 281 | .244 |
| 108 | 687 | 000 | 637 | 623 | 611 | 000 | 000 | 240 | 562 | 500 | 547 | 540 | 533 | 527 | 521 | 516 | 510 | 201 | 964 | 492 | 487 | 040 | 476 | 472 | 694 | 0 % | 459 | 457 | 929 | 0 | 436 | 425 | | 01 | 100 | 383 | 378 | 543 | 357 | 351 | 346 | 336 | 332 | 3 73 88 10 75 88 | 322 | 900 | 286 | 277 | 270 | 263 | 258 | 255 | 218 |
| 678 | 657 | 620 | 100 | 200 | 202 | 57. | 201 | 542 | 534 | 526 | 519 | 512 | 505 | 004 | 603 | | m | \$7.00 \$7.00 | • | | 094 | 452 | 0.0 | | 442 | 64.5 | 432 | 430 | 427 | 421 | 409 | 300 | 381 | ~ | 368 | 356 | 351 | 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 331 | 325 | 916 | 310 | 306 | 308 | 296 | 283 | 260 | 251 | 245 | 23.5 | 232 | 229 | 193 |
| . 079 | 627 | 000 | 24.0 | 566 | 554 | 543 | 255 | 2 4 | 506 | | 104 | 484 | 478 | 472 | 994 | . 19 | 455 | 944 | | 437 | | 425 | 422 | . 18 | 415 | 214 | 406 | .03 | 000 | 305 | 363 | 372 | 355 | 348 | 333 | 330 | 325 | 312 | 305 | 200 | 293 | 284 | 280 | 276 | 270 | 257 | 234 | 226 | 219 | 210 | 206 | 204 | 167 |
| 618 | 598 | 580 | | 537 | 525 | 514 | | | 478 | 471 | 663 | 457 | 450 | *** | 430 | 433 | 428 | • 19 • 19 | *1* | 41c | 904 | 308 | 395 | 391 | 388 | 0.00 | 379 | 376 | 373 | 368 | 356 | 346 | 329 | 322 | 300 | 35. | 299 | 294 | 279 | 273 | 268 | 256 | 254 | 250 | 244 | 231 | 200 | 200 | 193 | 100 | 181 | 178 | 142 |
| | | | | | | 1 | | | | | | İ | | | | | | | | | | | | | | | | | | | | | | | 283 | 1 | | | | | | | | | | | | | 1 | | | | |
| • | | • | • | • • | • | 1 | • | • | • | • | • • | ֓֟֟֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓ | • ' | • | • • | • | 1 | • | • • | • | • | 1 | • | • | • | • | ' | • | • | • • | , I | • | • | • | 257 | | • | • | • • | | • | • • | • | • | 1. | • | • (| • | 1 | • | • • | • | • |
| | - | | | | | 1 | | | | | | l | | | | | | | | | | Į | | | | | | | | | - [| | | | 232 | Ì | | | | | | | | | | | | | | | | | |
| | | | | | | 1 | | | | | | П | | | | | | | | | | Į. | | | | | l | | | | 1 | | | | 212 .2 | | | | | | | | | | | | | | 1 | | | | |
| | ı | | | | | 1 | | | | | | 1 | | | | | | | | | | | | | | | l | | | | | | | | | | | | | | | | | | İ | | | | | | | | |
| | - 1 | | | | | | | | | | | 1 | | | | | - 1 | | | | | 1 | | | | | 1 | | | | - 1 | | | | 0 0 | 1 | | | | - 1 | | | | | 1 | | | | - 1 | | | | |
| • - | 15 | 9 1 | | 0 0 | 50 | | 2 6 | | 12 | 2 | | 20 | 50 | O | 31 | 35 | 33 | 9 10 | 9 | 37 | 60 C | 0 | - | 45 | F) 4 | 4 40 4 10 | 46 | 47 | 4 4 | 3 6 | 55 | 0 0 | 2 | 75 | E E | 6 | 5 | 1100 | 120 | 230 | 4 6 | 160 | 170 | 0 0 0 | 200 | 200 | 000 | 200 | 909 | 800 | 006 | 1000 | • |
| ž | Z | 2 Z | 2 2 | Z | Z . | ž | # Z | # I | Z | 2 | Z | Z | 2 | Z | Z | Z | ž | k B Z Z | # Z | # Z ; | 2 Z | Z | 2 | Z Z | # I | 1 H | 2 | N Z | 1 2 2 | N H | ž | 1 I 2 Z | Z | Z : | N N | u Z | 2 2 | 1 16 2 2 | Z | 2 | H I | Z | N Z | # # Z Z | Z | # 2 | 1 H 2 Z | Z : | ž | 1 H | Z | u | |

ĥ

TABLE IT (COLL) TO STATE THE TOTAL AND AND THE TRANSPORT OF A STATE TO THE TOTAL AND THE TRANSPORT OF THE TR

Dillichation 256

| | 1 | Proport | ion of | Populatio | on (overed | - | 1 | | | | | | | | | | | | |
|--------------|----------|---------|---------|-----------|--------------|-------|-------|------------|-------|-------|---------|-------|------------|----------|-------------|------------|-----------|-------|------------|
| | • | 89 | 69. | ٠,70 | 17. | .72 | .73 | .74 | .75 | .76 | .77 | .78 | .79 | 08. | .0 | . 82 | .83 | .84 | .85 |
| 11 Z : | m c | 0.85 | 3,180 | 3,277 | 3,377 | | 58 | 9 | ω. | ٠, | 0 | 16 | 29 | 42 | 55 | .70 | .85 | • | 17 |
| | v | 755 | • | • | | • | 0 | 2000 | 2 150 | 2.212 | 2,277 | 2.854 | 93 | 0 4 | - 5 | 3,211 | 9 | | 3,520 |
| H Z | - | 543 | | | • | • • | 7.8 | .84 | - ∞ | | | 0 | N. | - | 25 | 32 | 30 | 9 | 3 |
| # Z | ~ | 407 | • | • | • | • | .63 | 6 6 | ~ | 1.784 | 1,836 | 89 | .04 | 8 | 90. | 12 | 19 | - | 33 |
| H Z | <u>.</u> | 310 | • | • | 1.436 | 9 8 9 | 1,525 | 1.571 | 1.618 | 1.666 | 1.716 | 1.767 | 1.820 | 1.875 | . 932 | | 2.053 | - | 18 |
| 11 2 | -`} | 537 | • 1 | • 1 | • | • | | 1.487 | 1,532 | 579 | ין ס | 6 | 72 | ~ | ۳. | 80 1 | 40 | | .07 |
| II II 2 Z | - | 133 | 1,170 | 1,208 | 1,247 | 1,286 | 1,327 | 1,368 | 1.411 | 1,454 | 1.420 | 546 | ၈ ၀ | 1.642 | 1 603 | 1.810 | 8 0 | 1.920 | • |
| 7 | - | 960 | | • | | • | 1,284 | 1,324 | 1,366 | 1.409 | 4 | 40 | 54 | 59 | • | 60 | 7 | 1.804 | 86 |
| 11 Z 2 | | 100 | • | • | • | • | 1.247 | 1.267 | 1,328 | 1,370 | 4 . | 45 | 20 | 55 | (C) | 55 | 10 | 1.757 | 18 |
| H I | | 000 | • | • | • | • | 1 180 | 1 228 | 1,296 | 1 308 | 350 | 1 423 | 9 6 | 51 | 1.562 | 1,612 | 1.664 | 1,718 | P F |
| 1 H 2 Z | | 986 | | • • | •! • | • • | 1.165 | 1 203 | 1.242 | 1.283 | 1,324 | 36 | 1 | 5 0 | n ko | 52 3 | 000 | 1.083 | رم د م |
| N Z | • | 996 | 1.000 | 1,035 | • | • | 1.144 | 1,182 | 1.220 | 1,260 | 1,301 | 1.343 | • | 1.431 | 4 | 1.525 | ~ | 1,627 | 1,681 |
| N Z | • | 949 | . 983 | • | • | • | 1,125 | 16 | 1.201 | 1,240 | C) | 1,322 | 36 | 40 | 4 | 20 | 55 | 1,603 | 65 |
| H Z | ٠ | 933 | .967 | • | | | 1,107 | 1,145 | 1,183 | 1,222 | 1,262 | 1,303 | 34 | 38 | 4 | 1.481 | FD | 1.581 | 63 |
| # 1 2 2 | • | 616 | 250 | 986 | 000 | 0.56 | 1.092 | 1,129 | 1.166 | 205 | rv r | 1.286 | N - | 37 | 1.416 | 9 6 | 1,511 | 1,562 | & I |
| 1 11 2 | 1 | 89.2 | 626 | 960 | • • | | 1.064 | 101 | 1 2 8 | 176 | 1.015 | 1 255 | • i0 | 0 4 | ין ני | 1 4 | 0 0 | 0 P | 20 |
| 11 | | 882 | 915 | 948 | .982 | • | 1,052 | 1.088 | 1,125 | 1,163 | v | 1.242 | v vo | 30 | 7 17 | ? ₹ | 9 | 1.512 | , ע |
| # 2 | | 872 | 00 | 937 | 176. | 1,006 | 1.041 | 1.077 | 1,114 | - | _ | 1,230 | 27 | 1,313 | 1.357 | 1.402 | 10 | 000 | 1.550 |
| # 2 | • | 862 | 804 | .927 | 196. | 906 | 0.00 | 1,066 | 1,103 | 1.140 | 1,179 | 2 | • | 30 | 1 | 39 | 4 | 1.486 | 53 |
| # 2 | ٠ | 853 | 885 | .918 | .952 | 986 | 1,021 | 1,056 | 1.093 | 1,130 | 1,168 | 1,208 | 4 | 29 | m | 37 | 2 | 1.474 | 52 |
| II Z | 1 | 844 | .877 | 600 | . 943 | -977 | 1.011 | 1.047 | 1.083 | 1.120 | 1.159 | 1.198 | mi | 1.280 | 1,323 | 0 | 1.414 | 0 | 51 |
| # Z Z | ľ | 937 | 698 | 000 | . 954 750 | 996 | 5000 | 0 0 | 0 4 | 1.112 | 1.150 | | 22 | 27 | י פו | so e | 1.404 | 4 5 | 0 |
| 1 11 | • | 822 | 854 | 988 | 016 | 000 | . 987 | 200 | D LC | 000 | 1 | | , , | 10201 | າດ | 9 4 | 2000 | 4 4 | 9 0 |
| Z | • | 815 | 847 | .880 | 912 | 946 | 980 | 0.0 | 1,051 | 1.088 | 1,125 | 1,164 | • • | 1 4 | 1.287 | 1.331 | 1.377 | 1.425 | 1.474 |
| N Z | ٠ | 608 | . 841 | .873 | 906 | 666 | .973 | 1.008 | 4 | 1.081 | 1,118 | 15 | 19 | 23 | ď | (A) | 3 | - | 46 |
| # 1 2 | | 803 | 838 | .867 | 000 | .933 | 196 | 1.002 | m | 1.074 | 1.111 | 1,150 | 89 . | 23 | 8 | 31 | 1,361 | 9 | () I |
| H 3 | • | 700 | . 0 C V | | | | 900 | | 2 0 | 000 | 1.105 | 4 1 | 1 0 | 2 . | ra c | 9 0 | 1,354 | 0 | 0 |
| 1 H | • | 787 | 818 | 930 | 883 | 910 | 020 | 990 | 1.019 | 1.056 | ¥ 00° 1 | 0 1 | | 7 5 | N U | 2 0 | 1 3 4 7 | 1,394 | 4 4 |
| H Z | • | 782 | 813 | 845 | 878 | 911 | 946 | 979 | - | 1.050 | 1.087 | 12 | 9 | 1.205 | 1.246 | . 0 | P (P) | o or | 1 4 |
| N Z | • | 111 | . 809 | .840 | .873 | 906. | ÷639 | 426. | 1.009 | 1.045 | 1.082 | 1,120 | 1.159 | • | N | 38 | 32 | 37 | |
| H Z | | 773 | 804 | .836 | .868 | 901 | .934 | 696. | 1.004 | 1.040 | 1.077 | = | 5 | | 1,235 | ~ | N | 36 | 1,418 |
| H 1 | • | 169 | 000 | 633 | 500 | 000 | 050 | 9 0 | 9 6 | 020 | 1,072 | 1 109 | 4 : | 9 | N (| 27 | 7 | 9 | - |
| ı H | • • | 760 | 791 | .823 | 855 | 888 | 921 | 955 | 000 | 1.026 | 1.062 | 1.100 | 1,130 | 10 | 1 220 | 1 264 | - c | 1.358 | 9 6 |
| H 2 | | 757 | 788 | .819 | .851 | 984 | .917 | 951 | 986 | 1.021 | 1,058 | 1.096 | E . | 1 | ľ | 25 | 0 |) 6 | 0 |
| II Z | • | 753 | .784 | .815 | .847 | .880 | .913 | .947 | .982 | 1.017 | 1.054 | 1.001 | 13 | 17 | . 0 | 25 | . 0 | 4 | . 0 |
| I Z | • | 749 | .780 | .812 | .844 | .876 | 606. | .943 | .978 | 1,013 | 1.050 | 1.087 | 12 | 16 | N | 8 | 20 | 33 | 38 |
| # 2 | • | 746 | 144. | 808 | . 840 | 248 | 906 | 939 | 974 | 1.010 | 1.046 | 1,083 | 12 | 9 | 1.202 | 24 | 28 | 33 | 38 |
| N 1 | • | 743 | . 773 | 000 | .837 | 600 | . O | 936 | 020 | 1.006 | 1,042 | 1.079 | = : | 2 | 1.198 | 4 | 28 | 8 | - |
| N N | • | 736 | 767 | 708 | 930 | . 862 | 895 | 0.0 | 900 | 000 | 1.035 | 1.072 | : : | 0.0 | 1.194 | A 4 | 1 | NO | ₩ |
| N Z | • | 733 | 764 | 795 | .827 | . 859 | .892 | 956 | 096 | 966 | 1,032 | 1.069 | 1.107 | 1.146 | 1,187 | N | 1.273 | 1.318 | - 0 |
| HZ | • | 720 | 750 | .781 | .813 | 845 | .878 | 116. | .945 | 980 | 1.016 | 1.053 | 8 | 13 | - | 21 | 25 | 30 | 34 |
| N I | • | 404 | 7.38 | 769 | . 801 | . 633 | . 865 | 600 | E 6 6 | .967 | 1.003 | 1.040 | | | 15 | 0 | 24 | 28 | 1,333 |
| H | • | | 710 | 200 | 0 0 | 220 | 9 4 | 7 20. | | 0 4 | 266. | N - | 0000 | | | ∞ 1 | 1,229 | 1,273 | ~ • |
| 9 | • | | | | | | 200 | 0100 | | • | 106. | 5 | 2 | 3 | 2 | • | 7 | 9 | 30 |

| 1.774 | 1 708 | | 1,656 | 1.614 | 60 | P 4 | 1.550 | 1.537 | 1,525 | 1,513 | 1.503 | 443 | 1 .4 74 | 1,465 | 1,45% | 1.45 | 1.436 | 1,430 | 1.424 | 1.418 | 1.412 | 1.401 | 1.396 | 1.391 | 1,387 | 1.382 | 1,378 | 1,370 | 1,366 | 1.346 | 1,333 | 1.308 | 1.298 | 1,289 | 1.280 | 1.266 | 1.259 | 1.232 | 1.230 | 1,222 | 1,215 | 1.204 | 1,198 | 0 0 | 1,190 | | | 1,131 | | | 1,103 | | |
|-------|--------|-------|-------|-------|-------|-------|-------|-------|---------|-------|---------|-----------|---------|-------|-------|--------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|---------|-------|-------|-------|-------|-------|-------|---------|-------|-------|-------|-------|-------|-------|-------|-------|--------------|-------|-------|-------|------|-------|-------|-------|-------|
| 1,718 | 1 653 | 1.627 | 1,603 | 1,562 | 1.544 | 1.57 | 664 | 1.486 | 474 | 1.463 | 4 5 2 2 | 1.433 | 1.425 | 1.416 | 1.409 | 10401 | 1.387 | 1,381 | 1.375 | 1,369 | 300 | 1,353 | 1.348 | 1.343 | 1,339 | 1,534 | 1,330 | 1,322 | 1,318 | 1,301 | 1,286 | 1.262 | C) | 1.243 | 1.234 | 1.220 | 2 2 | 2 0 | 0 | 14 | 17 | 150 | 5 | 4 | 1.128 | = | 60 | ၀၀ | 1: | 90 | | 1,015 | |
| 1.664 | 1691 | 1.575 | 1,551 | תשיח | 1.494 | 4 4 | 1.459 | 1.437 | 1,425 | 414 | 1.305 | 1.385 | 1.377 | 1,369 | 1,361 | 1,354 | 1 9 9 1 | 1,334 | 1.328 | 1,323 | 1.31. | 1.307 | 1,302 | 1.297 | 1.293 | 1.289 | 1,285 | 1.277 | 1,273 | 1,256 | 1.241 | 1.217 | 1.207 | 1.198 | 1.190 | 1.176 | 1.170 | 1.150 | 1.141 | 1.134 | 1,128 | 1,116 | 1.111 | 1.107 | 1.086 | | 0.5 | 1,038 | 3 5 | 0 0 | 1,018 | 0 | · C |
| 1.612 | 1.550 | . 525 | | 1.463 | 4 | 1.430 | 1.402 | 1.390 | 1,379 | 1.368 | 900 | 1.340 | 1.331 | 1,323 | 1,316 | 905. | 1,296 | 1.290 | 1.284 | 1.278 | 2,46 | 1.263 | 1,258 | 1.253 | 1.245 | 1,245 | 1.241 | 1.233 | 1,229 | 1,213 | 1.198 | 1.175 | 1.165 | 1,156 | 1.148 | 1,134 | 1.128 | 1.108 | 1.100 | 1.093 | 1.086 | 1.075 | 1.070 | 1,066 | 1.062 | 1,034 | 1,017 | 900 | 266 | .986 | 982 | 900 | 924 |
| 1.562 | 1 502 | 1.477 | 4 4 | 4 | 1,399 | 1.384 | 1,357 | 1,345 | 1,334 | 1,323 | 1,313 | 1.296 | 1,287 | 1,280 | 1.272 | 1.265 | 1.252 | 1.246 | 1.241 | 1.235 | 2000 | 1,220 | 1,215 | 1.211 | 1.206 | 1,202 | 1,198 | 1.101 | 1,187 | 1.171 | 1.157 | 1,133 | 1,124 | 1,115 | 1.107 | 1.094 | 1.088 | 1.068 | 1.060 | 1,053 | 1.046 | 1.036 | 1.031 | 1.026 | 1.022 | 966 | .978 | 967 | 953 | .048 | . 4 | 897 | |
| 1,514 | 1 455 | 1.431 | 1.409 | 1,371 | 1,355 | 1.340 | 1,313 | 1,301 | 1,290 | 1.280 | 1.261 | 1.253 | 1,245 | 1,237 | 1,230 | 1.62 | 1.210 | 1,205 | 1.199 | 1.194 | 001. | 1.179 | 1,174 | 1.170 | 1,165 | 1,161 | 101.1 | 1,150 | 1.146 | 1,130 | 1.116 | 1.094 | 1.080 | 1.076 | 1.008 | 1.055 | 1.049 | 1.020 | 1.021 | 1.014 | 000 | 907 | .993 | 986 | 984 | 957 | 941 | 930 | 916 | 1100 | 000 | .861 | 050 |
| 1.468 | | 38 | 1.365 | 3 2 | E | 20 | 27 | 25 | 2.4 | 2 3 | v. v | 21 | 1,204 | 1.196 | 1.189 | 1,183 | 1.170 | 1.164 | 1.159 | 1.153 | | 1.139 | 1,134 | 1.130 | 1,126 | 1,122 | 1,118 | 1.10 | 1.107 | 1.091 | 1.078 | 1.055 | 1.046 | 1.037 | 1.030 | 1.017 | 1.011 | 1000 | 986 | 624 | . 971 | 096 | 956 | 951 | 947 | 920 | 406 | 894 | 880 | .875 | 868 | 825 | .815 |
| 1.423 | 1 366 | 1.343 | 1,322 | 1.286 | 1,270 | 1.255 | 1,230 | 1,218 | 1,208 | 1.198 | 1,180 | 1.172 | 1.164 | 1,157 | 1,150 | 1.143 | 1,131 | 1,125 | 1.120 | 9 0 | 2 . | 1.100 | 1,096 | 1.001 | 1.087 | 1.083 | 1.079 | 1.072 | 1.069 | 1,053 | 1.040 | 1.018 | 1.009 | 1.000 | 500 | 086 | 476. | 9 0 | .947 | 196. | . 935 | 926 | 920 | 915 | . 912 | 885 | . 869 | 851 | 845 | .840 | 000 e | 791 | .781 |
| 1,379 | 1,324 | 1.301 | 280 | 1,245 | 1.229 | 1.215 | 1 190 | 1.179 | . 168 | 1 59 | 1.141 | 1 1 1 3 3 | 1,125 | 1,118 | 1.111 | 1 000 | 1.093 | 1,087 | 1.082 | 1.077 | 2 2 2 | 1.062 | 1,058 | 1.054 | 1.050 | 1.046 | 2.042 | 1.035 | 1.032 | 1.016 | 1.003 | .981 | .972 | .964 | 166. | 9 4 4 4 | .938 | 020 | 915 | 906 | 600 | 689 | 885 | 980 | .861 | .850 | 838 | 817 | 811 | 908 | 700. | 757 | .747 |
| 1,337 | 1.283 | 1.260 | 1,240 | 1 205 | 1,190 | 1.176 | 1,151 | 1 140 | ¢, ; | 1.120 | 103 | 1.095 | 1,088 | 1,081 | 1.074 | 1 0007 | 1,056 | 1.050 | 1.045 | 1.040 | 000 | 1.026 | 1,021 | 1.017 | 1,013 | 010.1 | 1,000 | 666 | 966 | 980 | 967 | 946 | .937 | .929 | 922 | 606 | 4000 | 9 60 | .878 | .871 | .865 | 855 | 950 | 846 | . 828 | Œ | 801 | ~ ~ | 777 | .773 | 766 | (V) | |
| 1,296 | 24 | 22 | 1,201 | 9 | 5 | 1.138 | : = | 0 | 0 0 | | 1,066 | 05 | 0.5 | 1.044 | 000 | 1.031 | - | 0 | 1.000 | 1,000 | 400 | 066 | 986 | .982 | 979 | 470. | 07.00 | 900 | 960 | 945 | 0.00 | 911 | 600 | 695 | 388 | .875 | .870 | 9 6 | .844 | .837 | 832 | . 621 | .817 | 813 | 467 | 784 | 768 | 758 | 745 | 740 | 733 | 6.03 | . 683 |
| 1,255 | I N | ~ | 1,162 | | ** | ~ ¢ | 0 | 0 | 0 0 | 0 0 | 1,030 | 0 | 0 | 0 | 1.092 | 900 | 96.4 | 979 | .974 | 696. | 0 0 | 955 | .951 | .947 | 943 | 0000 | • c | 926 | 926 | . 911 | 999 | 878 | .869 | .861 | 908 | .842 | .836 | 818 | .811 | 908 | 790 | 769 | 785 | 781 | 777 | 751 | .736 | 719 | 713 | 100 | 702 | 661 | .651 |
| 1,216 | 1.165 | 1.144 | 1,125 | 1.092 | 1.077 | 1.064 | 1,041 | 1.030 | 1,021 | 100. | 900 | .987 | 086 | .973 | 196 | 000 | 950 | 944 | 666. | 450. | 000 | 921 | 917 | .913 | 606 | 900 | | . 895 | 9 9 9 9 | .878 | | 845 | .836 | .828 | 921 | 800 | .804 | 786 | .779 | .772 | 767 | 757 | .753 | 749 | 731 | . 720 | . 705 | 688 | 682 | .677 | .670 | 631 | .621 |
| 1,178 | 1.128 | 1.107 | 1.088 | 1.056 | 1 042 | 1.029 | 000 | 906 | 986 | 277 | 096 | 953 | 946 | 939 | 933 | 30. | 916 | 911 | 906 | 106 | | 888 | 884 | .880 | ,876 | 249 | , 00 a | .862 | 629 | 845 | . 833 | .812 | .804 | 796 | , H9 | . 777 | .772 | 754 | .747 | .741 | 135 | 726 | .721 | 717 | 700 | 689 | .674 | .657 | 150, | . 647 | 640 | 601 | . 591 |
| • | 1.00.1 | • | • | • • | • | 4994 | .971 | .961 | 952 | . 943 | 924 | 916 | .912 | 905 | 000 | 9 60 | 883 | 878 | .873 | 808 | 0 40 | 855 | .851 | .847 | PA44 | 040 | | 830 | 827 | .813 | 700 | . 781 | .772 | .765 | 752 | 746 | 147. | 723 | .716 | .710 | 404 | 695 | 169. | 687 | 699 | 629 | 449 | 634 | 129 | .617 | 610 | 571 | .561 |
| 104 | | | 1.001 | | ,972 | 096 | 937 | .927 | 919 | 000 | 806 | .886 | . 880 | B 7 3 | .867 | 0 0 | 850 | 845 | .840 | 6830 | 827 | 623 | .819 | .815 | .812 | | | .798 | 795 | 781 | 7.00 | 749 | .741 | 730 | 72/ | 715 | .710 | 693 | .686 | 089 | 949 | 665 | .661 | 657 | 2000 0000 | .629 | .614 | . 597 | 592 | 588 | 581 | 542 | .532 |
| | 1.020 | | . 983 | 952 | 938 | .926 | 000 | 804 | . A 8.5 | . 677 | 961 | 956 | .847 | .841 | 835 | 926 | 818 | . 813 | 608. | 808 | 706 | 791 | 788 | . 784 | 780 | 111. | 776 | 767 | 764 | 750 | 728 | 719 | .711 | .703 | 104 | 685 | 690 | . 663 | .656 | 050 | 444 | 635 | .631 | 627 | 610 | 599 | 585 | .568 | 563 | 558 | 552 | 513 | 504 |
| 1,032 | ٠, | | | | ١ | | | | | | | | | | | | | | | | | | | | 1 | | | | | 14 | | | | | 1 | | | | | 1 | | | | i | | | | | ĺ | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | - | ļ~ ' | | | - | 7 | N | m . | 4 1 | വ വ | 1 | 00 0 | , 0 | 0 | 200 |

1 3

PACTORS OF OVE-STDED TOLETAYER LIMITS FOR A MORMAL DISTRIBUTION

95% COVETNERCE

Proportion of Population Covered ---

Ŵ

| | .86 | .87 | 80 | . 89 | 06. | 6. | .92 | €6• | 40. | 9. | 96. | . 07 | 96 | 0 | 966 | 666. |
|------|------------|---------|---------|-----------|-------|-------|-------|------------|---------|--------|---------|--------|-----------|-------|-------|-------|
| | 4) | 5,531 | 5,723 | 5.932 | 15 | 39 | 99 | 9.5 | .28 | 65 | 0 | 65 | • | 55 | .62 | 6 |
| | r, | 3,753 | 3,879 | 4.016 | -: | • | 49 | 4.683 | 4.898 | ~ | 5,435 | | 6.277 | 7.042 | 4 | 9.214 |
| | W | 3,075 | 3,177 | 3,288 | .40 | 53 | .67 | .82 | 00. | .20 | .33 | .73 | .12 | .74 | .31 | .50 |
| | N | 2,713 | 2.804 | 2 .02 | 00. | Ξ. | .24 | .37 | 53 | ۲. | 16. | . 17 | .51 | 90. | .56 | 9 |
| | | 2.485 | 2,569 | 2. 59 | • | 8 | 0 | 00 | 23 | 3,399 | 3,590 | 9 | 4.141 | 4.642 | 5,103 | 000 |
| | | 2,329 | 2.407 | 204.2 | • | 19. | ۲. | 0 | in O | . 18 | .36 | .58 | .88 | 33 | 4.787 | 5,687 |
| | ٠, | 2.212 | 2,287 | 2,368 | • 1 | .54 | ્ | 2 | . 88 | • i | .20 | 4 | 69. | 4,143 | 4.556 | 5,413 |
| | | 2,122 | 2 . 193 | 2,272 | • | 4 | S. | ٠, | | 6.0 | 0 | 2.7 | 55 | | 4.378 | 50 |
| | | 0.0 | 2 087 | 2 1 3 1 | • | 500 | 4 4 | 00.4 | 700 | | 0.0 | • | 464.6 | 0 1 | 23 | .03 |
| | • | V | 200 | 2 078 | • | | • | . 4 | 9 4 | 5.5 | 0.0 | 9 6 | 3 0 | | | |
| | 14 1,833 | 1.896 | 1,961 | 2,033 | 2,108 | 2,190 | 2.279 | 2.377 | 2.487 | 2.614 | 2.763 | 2,00,7 | | 2000 | 0 40 | 000 |
| | _ | 1,859 | 1,923 | 1.994 | | 14 | ~ | | 2.441 | 56 | .7 | 89 | | 20 | 87 | 9 |
| | r | 1.827 | 1.890 | 1,959 | | | ٦. | 29 | 2.401 | 2,523 | 99 | 8 | 90 | 46 | . 81 | 4.535 |
| | - | 1.798 | 1,861 | 1,929 | | 80° | .16 | .26 | 2,365 | 2.486 | .62 | ,80 | 0 | | .75 | 47 |
| | - | 1.772 | 1,834 | 1.902 | • | .05 | 133 | | 2,333 | 2,453 | 2,594 | • 76 | 00. | .37 | . 71 | 4 |
| | | 1.749 | 1.811 | 1.877 | • | 0.0 | ٠. | • | 2,304 | 2.423 | 56 | . 73 | 96. | E. | 99. | 4,364 |
| | | 1 700 | 760 | 1 . B . C | 000 | • | 0 0 0 | 0,170 | 2 255 | 2,396 | 2,5.4 | 2,705 | 2,933 | 2 205 | 3,628 | 4,318 |
| | ľ | 1 601 | 1 752 | 1 8 7 | 8 8 | •1 | •1 | • | 2 233 | 2 340 | 2 4 8 5 | | `\" | 2 6 | 2 | |
| | _ | 1,675 | 1,735 | 1.800 | 96 | 1.043 | • • | • | 2,213 | 2.328 | 2 463 | | . « | 202 |) K | 9 0 |
| | _ | 1,660 | 1,720 | 1.784 | 1,853 | 1.926 | | | 2,195 | 2,309 | 2.443 | 2 | . 60 | | 8 | - |
| | - | 1,647 | 1.706 | 1.770 | 83 | 1.911 | | | 2,178 | 2,291 | 2,425 | 58 | ٠, | 15 | 47 | 4 |
| | ~ | 1.634 | 1,693 | 1,756 | 8 | 1,897 | • | | 2,162 | 2,275 | 2.408 | ູນ | ۲. | 13 | \$ | |
| | ~ | 1.622 | 1.680 | 1.744 | 1.811 | 1.884 | 1.963 | • | 2.148 | 2,260 | 2,392 | 3 | ۲. | = | . 43 | 40 |
| | Γ. | 1.611 | 1.669 | 1.732 | 1.799 | 1.871 | 1.950 | | 2,134 | 2.245 | 2.377 | | 1. | 00 | | 4.065 |
| | - | 1.600 | 1,658 | 1.721 | 1.788 | 1.850 | 1.938 | • | • | .23 | 2.363 | ຄັ | ۲. | • | 39 | |
| | ~ . | 1.591 | 1,648 | 1.711 | 1,777 | € . | 1.927 | • | • | 22 | 2,350 | ທ | r. 1 | 90. | 37 | N |
| | - • | 1.581 | 1.639 | 1,701 | 1.767 | 1,638 | 1.916 | • | 2,098 | 2,208 | 2,337 | 2.497 | 2,710 | 3,048 | 3,359 | |
| | - | 448 | | 500 | 7,00 | o a | | • | • | | 2350 | • | ٠, | • | , | 3.084 |
| 1 | ٦, | 256 | | 200 | 730 | -0-1 | 000 | • | • | | 2 300 | ٠,١ | ٠,١ | • | • [| 3.900 |
| | - | 1 0 0 0 | 1.605 | 1.667 | ٠, | 1.803 | O CO | 9 | • | • | 400 | • | 2000 | *** | ٠, | • |
| | - | 1.542 | 1.598 | 1.659 | 1.724 | 1.795 | • | 1,955 | • • | | 2,285 | | | • | • | • |
| | - | 1,535 | 1,591 | 1,652 | 1,717 | 1,787 | 1,863 | 0 | | | 2,276 | | . 0 | • | N | 400 |
| | ~ | 1.528 | 1.585 | 1.646 | 1.710 | 1,780 | 8 | 1.940 | • | . 14 | ٠. | ٠. | ۰. | 96 | . 26 | • |
| | ٦: | 1,522 | 1.578 | 1,639 | 1.703 | 1.773 | 1.849 | 8 | • | • 13 | 4 | 1 | 8 | 잌 | .25 | |
| | - • | 2.510 | 1.572 | 1.00 d | 160. | 1.766 | 1.842 | 1,925 | • | ~ | | ٠, ۱ | .61 | ٥. | .24 | .86 |
| | - | | 000 | 1.00.1 | | 100 | 0 0 | | | : | • | າ ເ | | • | | w) |
| | . – | 000 | | 4 | | - 1 | u n | 900 | • | • | • | ? ' | | • | , , | 8 |
| | - | 1 405 | 1 550 | 010 | | | | 000 | • | • • | • " | • | 9 4 | • | , | 500 |
| | _ | 1 400 | 1.545 | 1.605 | | - **) | | 1 804 | 1 087 | • | • " | , " | | • | | 3,841 |
| | ' " | 1.485 | 1.540 | 1,600 | 10 | 1.732 | ٠l٥ | l an | 8 | 0 | 1 | ฃฑ | 'n | | | |
| | ~ | 1,481 | 1,536 | 1,596 | 1,659 | 1,727 | 0 | 1,884 | | 0.0 | | F) | 9 | | | 2 6 |
| | - | 1.476 | 1,531 | 1,591 | 10 | | | 87 | 1.970 | 07 | 2,199 | 35 | ທ | • | | 3.782 |
| | - | 1.472 | 1,527 | 1.587 | N) | 1.718 | 70 | 1.874 | 1.965 | .0 | | 34 | 'n | . 86 | 9 | - |
| | _ | 1.468 | 1,523 | 1,582 | 1,645 | 1,713 | 7 | 1.869 | 0 | 90. | - 18 | | 54 | 86 | | |
| | - | 1.450 | 1,504 | 1,563 | 1,626 | 1,693 | 0 | | | • | ٦. | 3 | ď | . 0 | 12 | |
| | 7 | 1.434 | 1.488 | 1.547 | | 1.676 | 4 | | 1,919 | 0. | 41. | | 6.0 | 80 | ŀ | 9 |
| | _ | 1.420 | 1.474 | 1,532 | 1.504 | | PT) | 81 | ô | °° | .12 | ς, | ₹. | .78 | 0. | .66 |
| | ٠. | 1 400 | 1.062 | 25.0 | 1,581 | 1.647 | 1.720 | 1.799 | 1.888 | | 2,109 | | . 4.3 | | 3,051 | • |
| | - | | 1 4 4 1 | 000 | 0,40 | 1,030 | 0 | © ₽ | | 1.976 | 000 | ų r | 2.438 | 4 | 6 | 62 |
| | - | 1 370 | 1 432 | | 1 550 | | 1 690 | 1 765 | | , 40 c | 0 0 | v r | 4 . 4 . 0 | , | 5.6 | 0 |
| | 1 351 | 1 421 | 1 434 | | | | | 1 | SSS*. | | | • 4 | 210.2 | • | 9 | 3.583 |

| ž | _ | 1,633 | 1.896 | 1,961 | 2,033 | | 2,190 | | 2,377 | 2.487 | 2,514 | 2,763 | | 3,193 | 3.584 | 3.043 | 689 |
|-------------|-------|--------|---------|--------|---------|-------|-------|--------|-------|--------|-------------|---------------|---------------|-------|-------|----------|----------------------|
| N Z | ז ר | 707 | 1.859 | 1,923 | 1,994 | •1 | 2,148 | 2,236 | 33 | 2.441 | | 7. | 8 | - k | 3,520 | 3,873 | 4.607 |
| u u Z Z | | 738 | 1.798 | 1.890 | 1,929 | | 2,080 | 2,165 | 2,260 | d M | 2,486 | | 2.847 | | 3.414 | 3.812 | 4,535 |
| ž | _ | 1,713 | 1,772 | 1,834 | 1.902 | 1.974 | 0 | 2,135 | N | 2,333 | 2,453 | 50 | 76 | 0 | F) | 3,710 | = |
| # ! Z Z | | 1.690 | 749 | 1.011 | 1.877 | • | 0 0 | 2,109 | 50 | M) (| 4 2 | | 5.0 | 96 | 33 | 99 | 9 |
| 2 2 | | 1,651 | 1 709 | 1.769 | 1,635 | | 1.980 | 2,062 | 13 | 25 | 2,371 | . 60 | 2 5 | Ō | 4 0 | 3,592 | 4 6 |
| ž | г. | 1.634 | 1.691 | 1,752 | 1,817 | 1,886 | 1961 | 2,042 | £ : | 2,233 | 9 | • | \$9 | 6 | 23 | 26 | lou i |
| # # Z Z | 24 | 1,604 | 1,660 | 1,720 | 1,784 | 1,859 | 1.926 | 2,007 | 2,096 | 2,195 | 2,309 | 2.463 | 2,609 | 2,830 | 3,206 | 0000 | 4.203 |
| i z | - | 1,590 | 1.647 | 1 706 | 1.770 | 1,838 | 1.01 | 1,991 | 2,079 | 2,178 | 29 | ٠. | 58 | 80 | 15 | 1 | - |
| Ž : | | 1,578 | 1.634 | 1,693 | 1,756 | 1.824 | 1,897 | 1.976 | 2,064 | 2,162 | | 4 | 10 | ~ | - | \$ 5 | _ |
| 2 2 | 7 | 990 | 1.622 | 1.680 | 1.744 | 1.811 | 1.884 | 1.063 | 2.050 | 2.148 | 26 | ٦, | 6 0 11 | 2 | ٦,٢ | 5 | 8 |
| 1 II 2 Z | | . 5555 | 1.600 | 1.658 | 1.721 | 1.788 | 90 | 1.938 | 2.024 | 2.121 | | חים | | | 3.080 | 0 E | 0 |
| H Z | _ | 1,535 | 1.591 | 1.648 | 1.711 | 1.777 | | 1.927 | 2,013 | 2,109 | 23 | ۳. | ູ | .72 | 90. | 37 | 2 |
| i z | | 1,526 | 1 581 | 1.639 | 1.701 | 1.767 | 1,638 | 1.916 | 2,002 | 2,098 | 200 | r) r | • | .71 | • | 36 | 0 |
| 1 1 2 2 | | 5.00 | 1.564 | 1,621 | 1,683 | 1,749 | 9 2 | 1,897 | 1.982 | 2.077 | 6 5 | כייו ני | | 9 0 | 9 0 | 32 | 9 9 |
| Z | Г | 1 502 | 1.556 | 1.613 | 1.675 | 1.740 | 18 | 1.888 | 1.972 | 90. | 1 | | ٠. | 0 | 00 | 31 | 3.949 |
| # 2 : | | 1.495 | 1.549 | 1.605 | 1.667 | 1,732 | 80 | 1.870 | 1.964 | • | 9 ! | ~ | • | 0 | 0 | m, | 6 |
| # 1 2 2 | | 1.485 | 7 5 5 F | 1 5098 | 600.1 | 1 717 | 1.787 | 1.871 | 1 955 | 2 050 | 2,158 | | • • | 0 0 | 2.983 | 2 6 | 0.00 0.00 0.00 |
| ı H | | 1.475 | 1,528 | 1.585 | 1.646 | 1,710 | 100 | 1.856 | 0 0 0 | • • | 4 | . ~ | • | . 0 | | 200 | 0 |
| Z | ~ | 1.469 | 1,522 | 1,578 | 1.639 | 1,703 | 77 | 1.849 | 1,932 | • • | E. | . ~ | | 62 | • • | 25 | 2 |
| ž . | т. | 1,463 | 1,516 | 1.572 | 1,633 | 1,697 | 1,768 | 1,842 | 1,925 | 2,019 | 12 | | 4 | .61 | | 2 | .86 |
| # # Z Z | | 1.457 | 25.0 | 1.566 | 1.627 | 1.691 | .750 | 1.836 | 919 | 2.012 | | ~ ~ | m, r | 2,605 | • | . S. S. | ന |
| ! # ? Z | - | 1.447 | 1 500 | 1,555 | 1.616 | 1,679 | 1,748 | 1,823 | 1 006 | 1 999 | - 0 | | 3 17 | 9 | | 2 2 | 9 9 |
| Z | _ | 1.442 | 1.495 | 1.550 | 1.610 | 1.674 | 1,743 | 1,818 | 1 900 | 1.993 | 00 | . ~ | | . 10 | 0 | . 20 | 82 |
| Ž | - | 1.437 | 1.490 | 1.545 | 1,605 | 1.569 | 1,737 | 1,812 | 1.894 | 1 987 | 00 | | F. | 57 | | | 18 |
| 2 | Г | 1.432 | 1.465 | 1.540 | 1,600 | 1.664 | 1.732 | 1,807 | 1,889 | 1,981 | 8 | ۳. | ۳. | Š. | 8. | = | 8 |
| N 1 | | 1.428 | 1.481 | 536 | 1.596 | 1.659 | 1.727 | 1.802 | 1.884 | 1.976 | 2.081 | 2 204 | 2,357 | 2.561 | 2.883 | 3.179 | 3,791 |
| N H | • | 1.420 | 1 472 | 1,527 | 1.587 | 1,650 | 1,718 | 1.702 | 1.874 | 1.065 | 0 | • | , " | 5 40 | . 4 | . = | 77 |
| Z | _ | 1.416 | 1.458 | 1,523 | 1.582 | 1.645 | 1,713 | 1 787 | 1.869 | 1 960 | 90 | : | . " | S | | | . 7 |
| z | ~ [| 1 308 | 1.450 | 1.504 | 1,563 | 1,626 | 9 | 1.767 | 1.848 | 1,938 | 0 | | .". " | S. | | 2 | ? |
| N 1 | | 360 | 404 | 0 4 | 1 547 | 1.000 | 9 | 644 | 929 | 010. | 0 0 | | N 6 | • | σο r | ŏ | 69. |
| 1 H | | 1,357 | 1.408 | 1.462 | 1.520 | 1.581 | 9 | 1 720 | 1 700 | 888 | 0 | - | 2.257 | | 7 6 | 0 | 0 |
| Z | _ | 1,346 | 1 397 | 1,451 | 1.508 | 1.570 | 63 | 1 ,707 | 1.787 | 1.875 | 0.7 | · | 2,242 | | * | 8 | 62 |
| H Z . | - • | 1,337 | 1 385 | | 1.498 | 1.559 | 62 | 964. | 1,775 | 1,863 | 0 | • | 2 | .42 | - | 6 | O |
| 2 2 | - - | 1 321 | 370 | 1 432 | 0 4 6 6 | 1 550 | 9 | 7697 | 1,755 | 1 853 | Φ (| | 2 2 | | - 6 | | 200 |
| 1 II | | 1,314 | 364 | 1.416 | 1.473 | 1.534 | 0 0 | 1.670 | 748 | 1 835 | 0 0 | , , | | | 2 0 | 9 0 | 500°E |
| | 00 | 1,307 | 1,357 | 1.410 | 1,466 | 1,527 | 59 | 1,66? | 1.740 | 1,827 | 0 | • | 1.8 | 38 | 99 | • | 3,539 |
| | 0 0 | 1,295 | 1 345 | 1,398 | 1.454 | 1.514 | 57 | 1,649 | 1.726 | 1,813 | 0 | 0 | .17 | 36 | 99 | ٠. | 3,516 |
| w # | 000 | 1.277 | 1.326 | 1.378 | 1.434 | 1.404 | 5 5 | 1.637 | 1.700 | 1.2001 | 10 0 | , , | 2,158 | 2 348 | 2.0.0 | 0 (| 3,495 |
| | 6 | 1.269 | 1.318 | 1.370 | 1.426 | 1.485 | 3 | 1.619 | 1.695 | 1.781 | o juo | լՄ | - | 32 | 20 | 10 | 3.462 |
| | 000 | 1,262 | 1,311 | 1,363 | 1.419 | 1.478 | 1,541 | 1.611 | .687 | 1.772 | 1.870 | 1,985 | 2,126 | 2,314 | 2,611 | 2.684 | 3,448 |
| | 000 | 2550 | 2002 | 1 900 | 1.406 | 1 465 | 2 6 | 1.00. | 1.680 | 1 758 | 0 0 | ው ር | | 9 0 | 9 6 | | 3,435 |
| | 00 | 1,245 | 1.294 | 1 345 | 1.401 | 1,459 | 52 | 1.591 | 1,667 | 1,752 | O | , 0 | • 0 | 2 8 | 9 6 | | 414 |
| | 8 | 1.240 | 1,289 | 1,340 | 1,396 | 1.454 | 51 | 1,586 | 1,662 | 1.746 | 8 | · O- | 0 | .28 | 27 | | • |
| | 0 0 | 1,236 | 1 265 | 336 | 1,391 | 044. | 1.512 | 1,581 | 1,656 | 1.741 | 83 | 0 0 | 60 | 27 | 25 | 1 | PD 1 |
| | 0 | 1,206 | 1.254 | 1 304 | 1,359 | | 4 4 | 1.547 | 1.621 | 1.704 | 90 | > 0 | 2.040 | 2 0 | 9 0 | 9 6 | • |
| | 00 | 1,188 | 1,236 | 1,286 | 1,340 | 0 | 46 | 1,527 | 1.601 | 1,683 | 77 | • | 0 2 | 0 | | | |
| | 00 | 1,176 | 1,224 | 1.274 | 1,328 | 8 | 1.446 | 1,513 | 1,587 | 1.669 | 1,763 | 1,873 | | Õ | • | 73 | .27 |
| | 9 | 168 | 1.215 | 1 265 | 1,319 | ~ | 0 | 1,503 | ~ | 1,659 | 75 | 0 | 1.997 | | | 72 | C; |
| | | 1.161 | 1 208 | 1,258 | 1.312 | 1,368 | 1.429 | 904. | 1.569 | 1,651 | 1.744 | 1.854 | | 2,168 | 2.451 | P 1 | 3,246 |
| | 0 | 1.151 | 100 | 1 248 | 1301 | DK | 014 | 4 | ÓW | | 16/91 | 1 9 6 1 | | | 2 443 | 2 9 | מ מ |
| _ | 00 | 1,147 | 1 195 | 1.244 | 1,297 | S (C | 1,415 | 1.491 | 10 | 1.634 | 1.727 | 1.836 | 1.970 | 2.149 | 2.430 | 2.688 | 3.220 |
| 0 | 60 | 1.101 | 1,148 | 1,196 | 1 . 248 | 0 | 1.364 | 1.428 | ŏ | 1,579 | 1.670 | 1.777 | | | 2,358 | 19 | 3 |
| 50 | 0 | 1,090 | 1,136 | 1.184 | 1,236 | | 1,351 | 1.415 | 1.486 | 1,566 | 1,656 | 1,762 | | 2,067 | 2,341 | 59 | |

B

j,

FACTORS OF OME-SIDED TOLFRANCE LIMITS FOR A NORMAL DISTRIBUTION

99% CONFIDENCE

.67

99.

69.

• 6

.63

• 62

.61

09.

.59

.58

.57

• 56

.55

54

•53

.52

5.1

.50

Proportion of Population Covered

| | | | | | | , | | | | | | | | | | | | | | | | | | | | | | | | | | | , | | | | | | | | | | | | | ŀ |
|---|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|------|------|-------|-------|-------|-------|-------|------|------|-----------|---------|-------|
| • | 6.911 | 3.785 | 2.206 | 2.005 | 1.810 | 1.669 | 1.476 | 1.406 | 1,349 | 300 | 1,259 | 1,222 | 1.190 | 1,161 | 1,135 | 000 | 1.071 | 1,053 | 1,036 | 1.021 | 1.007 | 666 | 020 | 000 | 040 | 939 | .930 | .921 | .913 | . 905 | 80.0 | 884 | .877 | .871 | .865 | | 48 | .843 | .838 | .833 | 878 | 803 | .786 | .771 | 757 | .745 |
| • | .7 | 3.681 | | 1.950 | 1.760 | 1,622 | 1.433 | 1,365 | 1,309 | 1,261 | 1,220 | 1,185 | 1.154 | 1,125 | 0000 | 0.55 | 1.036 | 1.018 | 1.002 | .987 | . 973 | 000 | 037 | 926 | 916 | 905 | .897 | 688. | .881 | 673 | 900 | .052 | .845 | .639 | .833 | .822 | .816 | .811 | 908. | .602 | 707 | 773 | .755 | .740 | 727. | 715 |
| | 'n | 3.580 | • - | | 1,711 | 1.576 | 1.301 | 1,325 | 1,270 | 1,223 | 1,183 | 1,148 | 1.117 | 080 | | 1.021 | 1.002 | .984 | 696. | • 954 | 0 0 0 | 1 | 000 | 894 | 884 | .974 | .865 | .857 | .849 | . 84 | . 00. | 820 | *18· | .808 | .802 | 791 | .786 | .781 | .776 | .771 | 100 | 742 | .725 | .710 | 169. | -686 |
| | 32 | 3.480 | 200 | 1.843 | 1.662 | 1,031 | 350 | 1,285 | :.231 | 1,185 | 1.146 | 1,112 | 1.081 | 000 | 1.00 | 987 | 996 | .951 | 938 | .921 | 200 | 200 | . 872 | 862 | .852 | .842 | .834 | . 825 | . 817 | 010 | 200 | 789 | .783 | .777 | 756 | 760 | .755 | .750 | .745 | .741 | 730 | 712 | 969. | .681 | 999 | 900 |
| | .13 | 3,383 | 0.5 | 1.792 | 1,615 | 380 | 1.310 | 1,246 | 1,193 | 1.148 | 1.110 | 1.076 | 1.046 | 610. | 0.00 | 953 | 935 | .918 | . 903 | 688 | . 875 | 6003 | 0 4 0 | 830 | .820 | . 611 | .803 | 104 | 787 | 0//- | 165 | 759 | .752 | .747 | 7.35 | 730 | .725 | .720 | .715 | .711 | 702 | 683 | 999. | .652 | 689 | .067 |
| | 5,949 | 3.287 | | 1.741 | 1,568 | 1.347 | 1.270 | 1.208 | 1,156 | 1,112 | 1.074 | 1.041 | 1.012 | 000 | 0 40 | 920 | - 905 | .886 | .870 | 926 | E . | 1000 | 809 | 799 | 789 | .780 | .772 | .764 | 156 | 4.5 | 738 | 729 | .722 | -717 | 705 | 700 | .695 | 069* | .686 | .681 | 673 | 654 | 637 | .623 | .610 | 900 |
| | 5,769 | 3.194 | 1.940 | 1.691 | 1,523 | 307 | 1.231 | 1.170 | 1,119 | 1.076 | 1,039 | 1.006 | .977 | 000 | 400 | 887 | .870 | .854 | .839 | 825 | 9 6 | 000 | 778 | 768 | .759 | .750 | .741 | .733 | 726 | 7 7 7 | 702 | 669 | .693 | .687 | 190. | .671 | 999. | .661 | 656 | .652 | 8 4 9 | 625 | .608 | .594 | 582 | 170. |
| | 5,593 | 3.102 | . 6 | 1.642 | 1.478 | 1 267 | 1.192 | 1,132 | 1,083 | 1.040 | 1 004 | . 972 | .944 | 0.0 | 874 | 855 | .838 | . 822 | .807 | 104 | 187 | 100 | 7 4 3 | 738 | .728 | .720 | .711 | 104 | 969 | 600 | 676 | 699 | .663 | .658 | 560. | .642 | ,637 | .632 | . 528 | .623 | 615 | 206 | .580 | 990 | . U.S. | . D#G |
| | .421 | 012 | • • | 1,593 | 1,433 | 1.227 | | 1.096 | 1.047 | 1,005 | 6961 | 936 | .910 | 000 | . 842 | 823 | 908 | 164. | .776 | .763 | 00.7 | 728 | 717 | .708 | 669 | 069. | .682 | .674 | 760. | 000 | 646 | 049 | .634 | •629 | 618 | .613 | 608 | .603 | 299 | 000 | 2 9 | 568 | .552 | .538 | 020 | C1C" |
| | 53 | 2.924 | 1.776 | 1,546 | 1,389 | 1.188 | 1.117 | 1,059 | 1.001 | 176. | 936 | 0 | 878 | 000 | 910 | 792 | 2775 | .760 | .746 | .732 | 27.0 | 804 | 686 | 678 | 699. | .660 | .652 | .645 | 750. | 000 | 617 | ,611 | 909 | 009. | 580 | 584 | .580 | .575 | 571 | 900. | 558 | 540 | .524 | .510 | 800 | . 433 |
| | • | 2.837 | 72 | 1.499 | 1,346 | 140 | 1.080 | 1,023 | 916. | .937 | 205 | . 872 | 0.40 | 170. | 770 | 761 | .744 | .729 | .715 | . 702 | 060 | 800 | 658 | 649 | 0 99. | 631 | .623 | 919 | 800 | | 589 | .583 | .577 | .571 | 561 | 556 | ,551 | .547 | 543 | 850. | 530 | 512 | 104. | . 683 | 1,4 | - 400 |
| | .926 | | 671 | 1,453 | 1.304 | 1111 | 1.043 | 986 | . 942 | .903 | 869 | .839 | 913 | 40, | 7 4 8 | 730 | .714 | 669. | 685 | •672 | 000 | 019 | 629 | .619 | .611 | .602 | 594 | 587 | 0 1 4 | 2,44 | 260 | ,554 | .549 | 543 | 533 | .528 | 524 | 510 | 010 | 0 0 | 502 | 465 | 694. | 456 | | |
| | - | | | • | 1.262 | 48 | 1.007 | O. | G. | .869 | 836 | .807 | 187. | 00. | 717 | 200 | .684 | 699 | 655 | 643 | 120 | 004 | 009 | .591 | .582 | .574 | • 566 | 522 | 100. | 6.5 | 532 | .526 | .521 | .515 | 503 | 200 | 496 | . 491 | 10 4 | 7 6 | 475 | 457 | .442 | 429 | 414 | 0 ^ - |
| | .612 | 9 0 | 5 | P) | 1,221 | -lo | 972 | 0 | 0 | .836 | 804 | .775 | ~ 1 | - 1 | · · | 670 | .654 | ø | 626 | 613 | 200. |) k | 571 | S | • | 545 | 538 | .530 | n w | | 504 | • | 0 | | 478 | | Oi. | • | | 0 4 | | FO . | - | 408 | 0 | ĸ |
| | .460 | | 519 | 916 | .180 | 000 | 936 | .884 | .841 | .804 | 2772 | .744 | 617. | 940 | 657 | 640 | .624 | .610 | 201 | 200 | 2,00 | 552 | 545 | 533 | .525 | .517 | • 509 | .502 | 0 | | 477 | .471 | .465 | 000 | 4.50 | .445 | . 441 | 437 | 35.4. | 424 | 421 | 403 | .388 | 375 | | , , |
| | .311 | 701 | 470 | .27 | 1,139 | | 6 | 93 | 808 | .771 | 740 | .712 | 989 | | 62 | 610 | 595 | 28 | 568 | 255 | 9 6 | | 514 | 50 | 4 | 480 | .482 | . 70 | 0 4 | 9 4 | 0 4 | | 438 | | 423 | 4 | 414 | 004 | 0 0 | 105 | 304 | 376 | .362 | 349 | 100 | 7 30 |
| | .165 | 746. | 422 | .231 | 760.1 | 928 | .867 | .817 | .775 | .739 | 708 | .5R1 | 769. | 20.4 | 205 | 581 | .566 | 555 | 539 | 527 | 0 10 | 204 | 486 | 477 | 469 | .461 | 456 | 444 | 9 6 | 7.74 | 422 | 416 | 4 1 1 | . 405 | 396 | 391 | .36.7 | .382 | 373 | 331 | 367 | 350 | 335 | 322 | 7 7 6 | 100 |
| | .021 | 676 | 374 | .188 | 090 | 892 | 633 | .784 | .743 | .708 | 677 | 059 | .627 | 0 4 | 568 | 551 | 537 | .523 | 510 | 80.4 | 18. | 46.7 | 458 | 440 | 141 | 434 | 426 | 0 1 | 5 4 4 | 9 0 | 394 | 389 | 384 | 378 | 989 | 364 | 360 | .356 | 352 | 0 0 0 | 340 | 323 | 300 | 305 | , < 8 J | L / J |
| | - | 4 4 | | | æ (| , 0 | - | 12 | 13 | 4 . | 15 | 9 | 14 | 0 0 | 2 0 | 21 | 22 | 23 | 4 | 5.2 | 9 6 | 100 | 0 0 | 30 | 33 | 32 | 33 | Ø (| 2 4 | 20 6 | - ED | 30 | 40 | 1 6 | 4 P | | 45 | 46 | 4 | E (| 20 | 55 | 20 | ر ا ود | 2 | ŗ |
| | | | | | N Z | | | | | | 1 | | | | | | | | | | | | | | | | 1 | | | | | İ | | | | | 1 | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |

| 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, | 7.0 | | | 75.0 | ų | .872 | 905 | 940 | 200 | 000 | | | | | | |
|--|----------|---|------|-----------|-------------|------------------|--|-------|---------|-------|-----------|----------------|-------|------------|------------|--------------|
| 781 813 845 878 910 944 977 1012 1016 1011 1011 1111 1113 1118 1119 1018 1019 </td <td></td> <td></td> <td>775</td> <td>836</td> <td>0 0</td> <td></td> <td>. A78</td> <td>)</td> <td>٧.٠</td> <td>1.006</td> <td>1.00.1</td> <td>1.076</td> <td>1,112</td> <td>: :</td> <td>1,220</td> <td>NIN</td> | | | 775 | 836 | 0 0 | | . A78 |) | ٧.٠ | 1.006 | 1.00.1 | 1.076 | 1,112 | : : | 1,220 | NIN |
| 17.1 1.46 | 0.4 | | .750 | .781 | - a | .645 | 2.5 | 0.00 | *** | 770. | 1.012 | 1.046 | • | = { | 5 | 1.190 |
| 1,10 | 'n | | 100 | 737 | 768 | 400 | . 931 | . 863 | 969 | 928 | . 661 | 200 | • • | •• | 00 | |
| 10,000 1 | . 0 | | 670 | 717 | 740 | 770 | . 792 | 9 6 2 | 9.00 | 000 | 940 | 053 | 6 | 0 0 | 0 0 | - 0 |
| Color Colo | | | .654 | .684 | .714 | .744 | .775 | 908 | 636 | .870 | 905 | um . | 968 | 10 | 0 | 0 |
| Color Colo | . · | | 626 | 65.5 | 685 | 715 | 200 | .776 | 100 | 900 | 880 | | 900 | Ď Ó | - ° | 00 |
| Color Colo | 4 17 | | 613 | 643 | 672 | .702 | . 732 | .763 | 70 | . 825 | .856 | .688 | . 921 | 10 | 9 6 | 0 0 |
| 100 | ~ | | 591 | 9.5 | 640 | 679 | 708 | 739 | 2 | 000 | 831 | 663 | 898 | .927 | 090 | *66 |
| 194 | <u> </u> | | 561 | 009 | 639 | 999 | 696 | .728 | 75 | 780 | 820 | .651 | .683 | | 940 | 0.00 |
| 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, | 2 | | 562 | 166. | 619 | 649 | 678 | .708 | 73 | .768 | 799 | 630 | 862 | | 926 | . 60 |
| 196 | 10 h | | | .582 | .611 | 0 40 | 699 | 909 | .726 | 750 | 789 | .820 | . 652 | 0 1 | ⊸ (| 4 5 |
| 556 587 | . 0 | | 538 | 266 | 594 | 623 | 652 | 682 | 7.17 | 741 | .772 | 603 | .834 | - 0 | O O | J 60 |
| 5.56 5.57 5.00 5.54 5.55 5.50 | ~ 4 | | 530 | .559 | 587 | 616 | .645 | .674 | 70 | .733 | .764 | .794 | .825 | 5 | 00 | (N) |
| 5.38 5.65 5.65 6.65 6.65 772 772 772 772 776 77 | 0.0 | | 517 | . 5. 4.5. | 573 | 602 | 630 | 099 | 689 | 726 | 7.00 | 787 | . 610 | 4 4 | 9 6 | . 913 |
| 5.24 5.56 5.56 5.56 5.56 5.56 5.56 5.56 5.57 5.66 5.56 <td< td=""><td>2</td><td></td><td>.510</td><td>.538</td><td>.567</td><td>. 595</td><td>.624</td><td>.653</td><td>.682</td><td>.712</td><td>.742</td><td>.772</td><td>.003</td><td>.834</td><td>.856</td><td>0</td></td<> | 2 | | .510 | .538 | .567 | . 595 | .624 | .653 | .682 | .712 | .742 | .772 | .003 | .834 | .856 | 0 |
| Section Sect | ٠. | | 400 | 532 | 0 60 | 986 | .617 | 9 9 9 | 676. | . 705 | 735 | .765 | .796 | .827 | 858 878 | 0 6 |
| \$15, \$543, \$571, \$000, \$629, \$659, \$671, \$717, \$741, \$777, \$602, \$639, \$639, \$650, \$ | 0 | | 493 | .521 | 540 | 577 | 909 | .634 | .663 | 693 | 722 | 752 | 783 | 418 | .845 | .877 |
| 10 10 10 10 10 10 10 10 | 0 4 | | .488 | .515 | 543 | .571 | 009. | .629 | .658 | .687 | -717 | .747 | .777 | 808 | .630 | |
| Secondary Seco | 0 | | 478 | 505 | | .561 | 589 | .618 | 647 | 676 | 705 | 735 | .766 | 708. | 623 | စေဖ |
| 10 10 10 10 10 10 10 10 | | | 600 | .500 | 528 | 556 | 584 | 613 | .642 | .671 | . 700 | 730 | 760 | 791 | .822 | .853 |
| *** *** *** *** *** *** *** *** *** ** | | 1 | 464 | .401 | .519 | .547 | 575 | .603 | .632 | 199 | 069 | .720 | 750 | 781 | 118 | 1.3 |
| *** *** *** *** *** *** *** *** *** ** | | | | 487 | 515 | . 5 4 3 5 4 3 | .566 | 599 | 623 | 656 | 686 | .715 | 745 | .776 | 806 | (C) (F) |
| ##7 ##69 ##7 ##68 | | | .52 | .479 | 506 | 53 | 562 | 200 | 619 | 8 . 0 | 677 | 706 | 7.00 | 766 | 797 | NO |
| 442 | | | 30 | 457 | 683 | 512 | 0 4 0 | 990 | 200 | 625 | 654 | 683 | 712 | 742 | 773 | OV |
| 447 | | | 415 | .442 | 694. | 704. | .524 | .552 | 580 | 809. | .637 | 999 | 969. | .725 | .755 | 00 1 |
| 406 433 460 466 515 554 571 599 627 656 786 715 77 304 424 424 424 424 424 424 424 424 424 4 | | | 300 | 417 | 0 4 | 4.1 | 864 | 526 | 554 | 582 | 610 | 639 | 999 | .697 | 727 | 757 |
| 397 424 421 421 422 422 501 601 601 601 601 705 705 705 705 705 705 705 705 705 705 | М | | 380 | 904. | 433 | 094 | ** | 515 | 543 | 571 | 599 | .627 | .656 | 984. | .715 | • |
| 361 | 4 0 | | 370 | .397 | 424 | 451 | . 478 | \$05. | 533 | 561 | 989 | 608 | 4 17 | .675 | . 705 | .735 |
| 373 | | 1 | .354 | .381 | 407 | 434 | .461 | .488 | 516 | .543 | 571 | 009. | 10 | .657 | .687 | - |
| 355 382 408 424 451 478 506 524 551 601 629 658 6 345 371 398 424 451 478 506 524 550 601 602 601 601 602 601 601 601 601 601 601 601 601 601 601 | - • | | .347 | .367 | 393 | 427 | . 654 | . 481 | 508 | 536 | 557 | 5 6 8 5 8 5 | ~ ~ | | 679 | .708 |
| 336 354 45 415 407 444 461 486 554 552 580 608 603 603 603 321 321 347 367 400 427 461 489 556 554 552 580 603 603 603 603 321 321 347 353 400 427 461 461 508 554 552 557 564 592 661 603 315 341 367 341 367 400 427 461 462 559 557 558 514 600 602 603 303 320 335 341 350 342 400 485 462 485 512 557 558 514 600 602 603 603 303 320 335 341 377 404 401 468 512 540 557 558 591 602 602 602 603 320 320 336 336 354 399 462 603 601 600 501 600 600 600 600 600 600 600 600 600 6 | m r | | 329 | 355 | 382 | 80 4° | 435 | .462 | 684 | .516 | 544 | .572 | 0 | N . | 659 | 6 0 I |
| 326 3354 381 407 434 461 488 516 554 554 600 6629 661 636 336 335 551 600 6629 661 636 335 335 345 345 340 342 420 447 474 508 554 555 554 555 614 60 639 335 335 335 335 346 347 411 441 441 500 517 555 573 607 607 607 607 607 607 607 607 607 607 | 2 🕊 | | 310 | 336 | 362 | 389 | 415 | 442 | · • | 900 | 5.24 | 552 | J. 40 | → 0 | 637 | 999 |
| 315 341 367 393 420 447 451 529 523 551 559 614 607 309 335 341 367 399 410 441 466 495 553 551 559 607 607 60 409 325 326 351 579 607 607 60 457 309 335 351 579 607 607 60 457 309 325 351 377 404 450 457 448 551 559 559 559 559 559 559 559 559 559 | 0 0 | | 302 | .328 | .354 | .361 | ************************************** | 434 | ◆ € | 4 68 | 516 | .543 | ~ < | 0 0 | .629 | 658 |
| 309 335 361 387 414 441 441 465 495 523 551 559 607 607 36 239 329 325 345 340 441 441 441 441 441 441 441 441 441 4 | m | | 289 | 315 | 341 | 367 | 393 | 420 | 4 | *44 | 501 | 523 | S C | 585 | .61 | 9 |
| 303 329 356 362 400 4835 4662 490 5517 5545 5573 602 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | | | .283 | 906 | 335 | .361 | .387 | .414 | | .468 | \$64. | .523 | 60 | - | £09° | P) |
| 294 320 346 372 399 426 453 480 507 535 563 591 66 272 276 302 328 354 380 407 434 461 488 515 555 557 55 557 55 558 272 65 288 314 340 367 393 420 447 474 501 529 557 55 57 55 524 270 295 321 347 391 400 447 447 474 501 529 557 55 57 55 524 270 295 321 347 306 347 441 441 441 441 448 501 529 557 55 52 52 52 318 341 378 404 431 458 458 500 514 55 52 50 514 55 52 52 52 51 312 338 359 380 413 440 445 445 500 55 51 500 51 500 51 500 51 500 51 51 500 51 51 500 51 51 51 51 51 51 51 51 51 51 51 51 51 | ~ r | | 273 | .303 | .329 | . 356 | .382 | 604 | 500 4° | 462 | 004. | .512 | 4 4 | - 0 | 00 | m N |
| 276 302 328 354 380 407 434 461 488 515 543 572 6 262 288 314 340 367 393 420 447 474 501 529 557 55 234 270 295 321 347 400 427 441 468 509 537 55 224 277 273 299 325 381 370 404 431 468 466 514 5 225 247 260 286 312 384 370 397 428 500 554 55 209 234 260 286 312 338 364 391 418 485 472 500 55 209 234 260 286 312 338 359 386 413 440 465 472 500 55 200 225 281 307 333 359 386 413 440 465 472 500 55 200 225 221 277 303 329 336 413 440 467 495 55 314 317 20 225 251 277 303 339 350 348 35 369 367 428 500 55 | N | 1 | .268 | .294 | 320 | ,346 | .372 | 399 | 979 | 453 | .480 | 507 | 10 | 0 | 165. | Li Or |
| .262 .288 .314 .340 .367 .393 .420 .447 .474 .501 .559 .557 .55 .244 .270 .295 .321 .347 .374 .400 .427 .454 .501 .559 .557 .55 .231 .270 .295 .321 .347 .400 .427 .468 .468 .496 .554 .55 .221 .257 .283 .308 .335 .351 .376 .404 .431 .458 .466 .465 .514 .55 .215 .240 .266 .312 .338 .354 .370 .397 .424 .451 .478 .500 .55 .205 .205 .205 .312 .333 .359 .386 .413 .440 .467 .495 .55 .200 .225 .221 .307 .303 .329 .386 .413 .440 .467 .495 .55 .200 .225 .221 .277 .303 .329 .385 .408 .435 .463 .460 .467 .495 .51 .147 .200 .225 .221 .277 .303 .329 .346 .343 .400 .407 .423 .424 .421 .407 .316 .316 .316 .316 .316 .316 .317 .400 .425 .500 .500 .500 .407 .400 .407 .400 .407 .400 .407 .400 .407 .400 .407 .400 .407 .400 .407 .400 .400 | ٠. | | .250 | .276 | 302 | .328 | .354 | • 380 | 407 | 434 | .461 | .468 | (| | .572 | 0 |
| 231 257 283 308 335 361 387 414 441 466 496 552 552 527 523 528 351 376 404 441 441 466 551 552 552 552 552 527 529 525 351 376 404 441 441 451 476 552 552 527 529 525 351 376 404 441 441 455 566 514 55 520 526 529 525 526 381 376 391 486 441 451 476 566 551 560 55 560 55 560 55 560 55 560 55 560 55 560 55 560 55 560 55 560 56 560 560 | - 5 | | 218 | 292. | 270 | . 295 | 4 0 | .367 | 393 | 0004 | .447 | 474 | . 501 | | 537 | |
| 222 247 273 299 325 351 376 404 431 456 466 514 55 215 215 220 252 2318 344 370 397 424 451 456 56 56 55 56 25 20 20 20 318 344 370 397 424 451 478 506 55 20 20 20 20 312 338 364 391 418 48 485 472 500 55 20 25 251 307 333 359 386 413 440 445 467 465 55 20 25 25 251 277 300 355 382 408 435 460 463 487 48 | 9 9 | | 206 | 231 | 257 | .283 | V 0 | 335 | 361 | 387 | U | 144 | . 66 | 904 | 524 | . 552 |
| 215 .240 .256 .292 .318 .344 .370 .397 .424 .451 .478 .506 .55 .209 .234 .260 .256 .312 .338 .364 .391 .418 .445 .472 .500 .55 .209 .234 .260 .255 .281 .307 .333 .359 .386 .413 .440 .467 .495 .55 .200 .225 .251 .277 .303 .329 .382 .408 .435 .463 .490 .383 .490 .343 .349 .343 .349 .343 .340 .343 .340 | - | | 196 | ,222 | .247 | ,273 | ଠା | ,325 | 351 | - | 0 | 431 | .458 | .486 | .514 | |
| .204 .234 .234 .255 .312 .333 .354 .391 .418 .445 .472 .350 .55 .254 .255 .333 .359 .386 .413 .440 .467 .495 .55 .25 .255 .251 .307 .333 .359 .386 .413 .440 .463 .490 .55 .251 .277 .303 .329 .385 .408 .435 .463 .460 .55 .251 .277 .300 .316 .316 .383 .409 .326 .3363 .4609 .437 .44 | 4 | | .189 | .215 | 4 | .266 | 0 1 | | .344 | h | .397 | 424 | .451 | .478 | 0 | 100 |
| | D M | | 179 | 200 | (n) | ₽ ₹ | 0 0 | - 0 | B 6 6 6 | 9 10 | 0 0 | . A 18 | | .467 | 0 0 | NN |
| .149 .174 .200 .225 .251 .277 .303 .329 .356 .383 .409 .437 .4 .136 .161 .167 .212 .238 .264 .200 .316 .343 .369 .306 .423 .4 | 0 | | 175 | .200 | N | S. | - | 0 | 329 | S. | 60 | 408 | .435 | | 0 | - |
| | 0 4 | | 124 | 140 | | 0 4 | N - | S . | .277 | 0 0 | N - | 356 | | | F 6 4 | |

FACTORS OF ONE-SIDIO TOFFRANCE LIMITS FOR A WORMAL DISTRIBITION

JULIAL LUNE TO THE

Proportion of Population Covered

Y

| | | ٠ و | 69. | ٠,70 | .71 | .72 | .73 | , , , , , , , , , , , , , , , , , , , | 15 | .76 | 11. | .78 | .79 | .80 | . 6 | .62 | . 63 | | 6 |
|------------|-------------|--------|-------|-------|---------|-------|-------|---------------------------------------|-------|-------|-------|---------|-------|--------------|---------|-------|----------|---------|-------|
| 11 2 | F. | 7.118 | 32 | 54 | 7.770 | ٥. | .2 | 8.47B | | 8.986 | .25 | • | .81 | ٦. | • | ۲. | .0. | 42 | 0 |
| N Z | 4 11 | 3,891 | 000.4 | 4,112 | 4.226 | E 45. | 404.4 | B 55 B | 4.715 | 4.846 | 4.982 | 5,122 | 5.267 | 5,417 | 5,573 | 5,736 | 5.906 | £.083 | 6.269 |
| II Z | n d | 0 PE 0 | 0.4 | | 201.0 | ٠. ١ | v. 1 | 3 366 | • | 3,548 | 000 | • | 0 | ٠, | • | • | 9 | m . | 9 |
| N 1 | . • | 2 061 | - | | 2000 | 3 ^ | 0 | 2000 | • | 2000 | • | • | • | | • | • | 0 - | 0 - | 0 6 |
| 1 H | α | 1 861 | 0 | 9 | 2.021 | • 0 | , F | 2.103 | N | 2 315 | • | • | ī | | • | • | | | |
| 2 | | 1 717 | 7. | . 6 | 1.867 | ٠. | ٠, | 2.027 | | 2,141 | • | • | 32 | | • | | 9 | | 2 2 |
| H Z | c. | 1.607 | 64. | 12. | 1.749 | ١٠. | ۳. | 1 901 | 10 | 2,009 | ٠. | • | F | ١٠. | • | ٣. | | 2 | 0 |
| | | 1.519 | . 56 | .00 | 1,655 | ۲. | | 1.800 | 1,851 | 1,903 | • | | .01 | ٠. | | ٠, | .32 | 39 | 9 |
| 7 | | 1.448 | 1.491 | .53 | 1,579 | ٠. | ٠. | 1,719 | 1.768 | 1,819 | 1.871 | | 96. | ۰. | • | ٦. | 22 | .28 | 35 |
| H Z | F. 1 | 1.390 | 43 | . 47 | 1,517 | S | 1.606 | 1,653 | 1.700 | 1.749 | 1.800 | | % | ٠. | • | ۰. | 13 | .20 | 27 |
| H Z | • | 1,340 | 1,381 | . 42 | 1.464 | s. | s. | 1.597 | 1.643 | 1.691 | 1.740 | • | 40 | • | • | ۰. | .01 | . 13 | 2 |
| 2 | - | 1 29R | 귀 | 실 | 1.419 | ។ | ୍ୟ | 1.549 | 1.504 | 1.641 | 1,689 | • | 2 | • | ٩ | 2 | 9 | 70 | 5 |
| # 2 | ¥ | 1,261 | 30 | .33 | 1,380 | 1.421 | | 1,507 | 1,552 | 1.597 | 1.644 | 1,693 | 4 | I | • | ٠. | 96. | .02 | 9 |
| H Z | 17 | 1.228 | 1.266 | 0 | 1.345 | | N | 1.470 | 1.514 | 1,559 | 1.605 | • | 0 | 1,753 | 1.805 | • | | | 0 |
| II 2 | σ. | 1,198 | .23 | 2 | 1,314 | m : | 39 | 1.437 | 1.480 | 1.524 | 1.570 | • | 9 | _ | • | • | | - | 6 |
| # 2 | 0 | 1,172 | 1.209 | 42. | 1,286 | 7 | ٠, | 1.407 | 364. | 1.493 | 1,538 | 1.584 | 63 | • | 1,732 | ۲. | • | • | 9 |
| ž i | | 60 . | T. | 22. | 1 . 200 | ٦. | , | 99 | 77. | 1.466 | 1,510 | 1,555 | 9 | · O | 1 . 701 | • | _ | • | 92 |
| 1 2 | - | 921 | 2 | | 1,237 | N. | 7 | 925 | 1 396 | 1 | 1.484 | 1 529 | 2 | ·ΟII | 1.673 | ٠١, | NI: | ا د | 2 |
| N I | , , | 000 | 200 | • | 1 107 | 002. | 274 | 41.6 | 0/00 | 306 | 100 | 500. | o o | 000 | 8 0 0 | 000 | 1.752 | | 96 |
| 7 | | | | • | | • • | | | 000 | 2000 | | | , C | n w | 0.70 | o • | 7 | 18 | . 8 |
| N 1 | | 9.0 | - 0 | | 2011 | • • | 0.00 | 270 | 97. | 046 | 000 | 000 | 0 0 | n w | 700. | 0 4 | | 9 | |
| 6 H | 9 | 1.00 | | | | | | 262 | 202 | | | 4.28 | , , | 0 6 | | 0 4 | 9 4 | ?; | |
| 2 | | 1 028 | 0 | 0 | 1.134 | 171 | 1.200 | 1 247 | 1.287 | 1 327 | 000 | 1 412 | | , a | | 3 4 | | - 6 | - |
| 2 | 2 | 1015 | 0.5 | 6 | 1.121 | - | 0 | 1 233 | 273 | 1 313 | 1.354 | 307 | |) 4 | 1 | אוי | | | 730 |
| 2 | 53 | 1.004 | .03 | ٥. | 1.100 | ٠. | ٦. | 1,220 | 1,259 | 1.299 | 1.340 | 1,383 | 42 | • | 1.518 | 100 | 9 | 9 | 72 |
| 2 | 3) | 663 | 1.027 | ૾૾ | 1,097 | ٠. | ٦. | 1,208 | 1.247 | 1,287 | 1,328 | 1.370 | _ | 1.458 | 504 | 1.552 | 9 | 1.054 | . 6 |
| 2 | 11 | 985 | 0 | 1,051 | 1.086 | 1,122 | 1,159 | 1,197 | 1,235 | 1,275 | 1,315 | 1,357 | 0 | • | 1001 | • | 5 | 1.640 | 0 |
| ¥ | 3.3 | . 972 | 1,006 | • | 1.076 | ٦. | - | 1,186 | 1,224 | 1,264 | 1.304 | 1,346 | 38 | • | 1.478 | E) | 5 | 62 | 8 |
| ž | \$ 3 | 963 | 100 | 0 | 1.066 | - | - | 1.176 | 1,214 | 1,253 | 1,293 | 1,335 | - | 1.421 | 1 . 467 | 1.514 | • | 9 | 99 |
| N Z | 33 | .954 | 986 | • 02 | 1,057 | ۰. | ٦. | 1,156 | 1.204 | 1,243 | 1.283 | 1,324 | 36 | • | 1,456 | , un | m | 18 | 18 |
| II Z | 33 | 946 | .079 | 0 | 1.048 | 1,083 | ٦. | 1,157 | 1,195 | 1,233 | 1,273 | 1,314 | 1,357 | 1.400 | 1.445 | 1.492 | 1.541 | 165. | 4 |
| N Z | 35 | 938 | . 971 | ွေ | 1.040 | ٥. | = | 1.148 | 1.186 | 1.224 | 1,264 | 1,305 | 46 | m | 1,435 | • | P | 2 | m |
| 2 | L | 930 | • 96 | 6 | 1,032 | • | ٦, | 1.140 | 1,177 | 1.216 | 1,255 | 1.296 | 33 | m | 1.426 | • | Q. | 57 | 62 |
| W 2 : | r (| 520 | 966 | 9 (| 4 20 4 | 1.00 | 660.1 | 1 . 1 32 | | 1.207 | 1.247 | 1.287 | 32 | י פי | 1.417 | • | - | • | - |
| 2 2 | 2 | 000 | 2 90 | | | 49 | 2 | | •1- | | 10639 | 22. | ۲: | יוי | | • • | 916 | | |
| Z | 4 | 003 | 936 | 9 | 1.003 | • • | 0.4 | 100 | | 193 | | 26. | | יו ו | 200 | • | | | 0 |
| 2 | 42 | .897 | 929 | .963 | .997 | 1.031 | ۵ | 1.103 | 1.140 | 1.178 | 1.217 | 1.257 | • | 1.340 | 1.384 | 1.430 | • | 1.627 | 678 |
| N 2 | 4 3 | .891 | .924 | 95 | . 091 | 1.025 | 0 | 1.096 | ~ | 1.171 | 1.210 | 1,250 | 29 | ъ, | 1.377 | • | • | • | 5 |
| Z Z | 4 | . 885 | 010. | 95 | .985 | 1.019 | 1.054 | 060. | - | 1,165 | 1.203 | 1,243 | • | г) | 1,370 | • | 4 | S) | 5 |
| 2 | 4.5 | 880 | .912 | 5968 | 070. | 1,013 | 1.048 | 1.084 | ~ | 1,158 | 1,197 | 1.237 | ~1 | m) | 1,363 | • | 1,455 | 1.504 | In. |
| N 2 | 6 9 | .875 | . 007 | 040 | .073 | 1.008 | 1.043 | 1.078 | - | 15 | 1.191 | 1,231 | 27 | • | 1,357 | • | • | 1.497 | 5 |
| 2 ; | • | .870 | 200 | 6000 | 800 | 1,002 | | 1,073 | 100 | ₹ . | 1.185 | 1 . 225 | 9 | | 1,351 | 1.356 | • | 1.491 | • |
| # Z | | 000 | . 000 | 9.00 | F 60 6 | 100. | 1.032 | 1.068 | - (| 4 . | 1.180 | 1.219 | | 1.301 | 1.345 | י פי | , | | S |
| 2 2 | , , | | 200 | 2 6 | | 740 | 000 | 1.002 | 400 | ? - | | | 3 6 | 4 6 | *** | , | 7 . | • | 20 |
| 2 2 | ()(| 0 60 | 798 | 000 | 032 | 990 | iō | 0.45 | , 0 | 0 | 1.145 | 1 186 | 1.224 | 26.5 | | 0 100 | 100 | 2 | N 4 |
| Z | 5 | 817 | 849 | 9.81 | 914 | 947 | l co | 0.0 | 10 | 18 | 1.125 | 1.164 | 10 | ייוי | 1.286 | 330 | | 1 | |
| 2 | 55 | . B02 | .833 | 85 | 168. | .931 | 96 | 0.0 | m | 07 | 0 | 1.146 | - | N | 1.266 | , " | . 67 | 1.403 | |
| Z | 7.3 | .788 | . 919 | 85 | .883 | 916 | .950 | ₩6. | 0 | 1,055 | 1.092 | 1,130 | 1.169 | 1,210 | 1,251 | 1.294 | 1,339 | 1.386 | 1.434 |
| ž | 7. | .776 | .807 | .839 | .871 | •00 | . 937 | 1.6. | ō | • | ~ | 1.116 | 1,155 | 1,195 | 1,237 | 1.280 | W | 1.370 | 1.410 |
| 2 | ă, | .765 | 2.796 | .828 | 000 | 368. | .926 | 0 16. | 0 | • | ø | 1.104 | 1.143 | 1.163 | 1.224 | 1.266 | - | 1 . 357 | C |

| 0 - 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | 4 8 8 9 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 | 221 1.464 1.424 1. | 1,380 1,421 1,464 1,326 1,345 | 1335 1380 1421 1464 1355 1365 | 335 1 380 1 421 1 464 1 305 1 | 335 386 421 464 305 345 386 428 222 266 305 346 222 266 305 346 170 217 218 316 160 197 217 218 201 160 197 217 228 100 112 201 228 100 112 201 228 100 112 201 228 100 211 201 201 00 211 201 201 00 211 201 201 00 211 201 201 00 211 201 201 00 211 201 201 00 211 201 201 00 211 201 201 00 211 201 201 00 211 201 201 00 211 201 201 00 201 201 201 00 201 201 201 00 201 201 201 00 201 201 201 00 201 201 201 00 201 201 201 00 201 201 201 00 201 201 201 00 201 201 201 00 201 201 201 00 201 201 201 00 201 00 |
|---|--|---|---|--|--|--|--|
| | a a contra de la compansión de la compan | | 2354 1,395 236 1,366 236 1,366 235 1,274 235 1,296 235 1,29 235 1,195 235 br>235 1,195 235 1,195 235 1,195 235 1,195 235 1,195 235 1,195 235 235 1,195 235 1,195 235 1,195 235 1,195 235 1,195 235 1,195 235 235 1,195 235 1,195 235 1,195 235 1,195 235 1,195 235 1,195 235 235 235 235 235 235 235 235 235 23 | 314 354 355 365 | 275 314 354 395 395 325 346 325 346 325 346 325 346 325 346 325 346 325 346 325 346 325 346 346 325 346 | 275 314 354 395 202 222 266 325 346 222 266 325 346 325 346 325 346 325 346 325 346 326 325 346 326 | 199 |
| | | | 25.5 1 2 2 3 1 1 2 2 1 1 2 2 3 1 1 2 2 3 1 1 2 2 3 1 1 2 2 3 1 1 2 2 3 1 1 1 2 2 3 1 1 1 2 2 3 1 1 1 2 2 3 1 1 1 2 2 3 1 1 1 2 2 3 1 1 1 2 2 3 1 1 1 2 2 3 1 1 1 2 2 3 1 1 1 2 2 3 1 1 1 2 2 3 1 1 1 2 2 3 1 1 1 2 2 3 1 1 1 2 3 3 1 1 1 2 3 3 1 1 1 2 3 3 1 1 1 2 3 3 1 1 1 2 3 3 1 1 1 2 3 3 1 1 1 2 3 3 1 1 1 2 3 3 1 1 1 2 3 3 1 1 1 2 3 3 1 1 1 2 3 3 1 1 1 2 3 3 1 1 1 2 3 3 1 1 1 2 3 3 1 1 1 1 | 1.260 3.00 | 1.222 1.260 1.300 1.340 1.272 1.276 1.316 1.300 1.340 1.217 1.225 1.294 1.316 1.325 1.294 1.316 1.325 1.294 1.325 1.295 1.295 1.295 1.325 1.295 1.395 1.395 1.395 1.395 1.395 1.395 1.395 1.395 1.395 1.395 1.395 1.395 1.395 1.395 1.395 1.395 1.395 1.395 1.095 1.095 1.395 1.395 1.395 1.095 | 222 260 300 340 1 200 200 | 1, 146 1, 185 1, 222 1, 260 1, 300 1, 300 1, 106 1, 106 1, 105 1, |
| | da a mangala a a sa a da sa a a a a a a a a a a a a | | 235 1 2 2 4 1 1 2 2 1 1 2 2 3 3 1 1 2 2 3 3 1 1 2 2 3 3 1 1 2 2 3 3 1 1 2 2 3 3 1 1 2 2 3 3 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 1. 197 1. 235 1. 274 1. 1. 180 1. 180 1. | 179 217 235 274 1 163 1 235 1 274 1 163 1 235 1 274 1 163 1 235 1 274 1 163 1 235 1 274 1 163 1 235 1 274 1 127 | 1.00 | 106 |
| | anno araba anno a mha anno araba anno arbanana. | 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 201 236 120 138 139 130 | 1.163 1.201 1.236 1.134 1.111 1.256 1.1091 1.111 1.203 1.007 1.112 1.105 1.006 1.122 1.159 1.006 1.002 1.120 1.006 1.003 1.120 1.003 1.009 1.112 1.001 1.009 1.113 1.001 1.009 1.113 1.001 1.009 1.113 1.001 1.009 1.009 1.003 1.009 1.009 1.003 1.009 1.009 1.003 1.009 1.009 1.003 1.009 1.009 1.003 1.009 1.009 1.003 1.009 1.009 1.003 1.009 1.009 1.003 1.009 1.009 1.003 1.009 1.009 1.003 1.009 1.009 1.003 1.009 1.009 1.003 1.009 1.009 1.009 1.009 1.009 1.009 1.009 1.009 | 143 1,163 217 256 1,127 1,256 1,112 1,143 1,201 1,239 1,006 1,112 1,209 1,006 1,112 1,120 1,006 1,005 1, | 1,127 1,163 1,201 1,236 1,127 1,036 1,109 1,112 1,209 1,006 1,134 1,171 1,209 1,006 1,109 1,109 1,109 1,109 1,109 1,109 1,109 1,109 1,109 1,109 1,109 1,109 1,109 1,109 1,109 1,109 1,109 1,109 1,009 | 1.055 1.091 1.127 1.163 1.201 1.236 1.055 1.055 1.055 1.056 1.127 1.158 1.186 1.223 1.056 1.056 1.056 1.138 1.223 1.056 1.056 1.138 1.223 1.056 1.056 1.056 1.138 1.056 |
| 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | o ai a laca a a a ada a a a a a laca a a a a a a a a a a a a | | 158 1 195 1 | 1.121 1.156 1.123 1.120 1.100 | 1.06 1.12 1.146 1.185 1.203 1.065 1.073 1.095 1.195 1.195 1.195 1.005 1.005 1.105 1. | 1.055 1.12 1.146 1.155 1.223 1.055 1.105 1 | |
| 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | | 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 1.12 1.19 1.19 1.19 1.19 1.19 1.19 1.19 | 1.007 1.156 1.105 | 1,065 1,121 1,136 1,195 1,195 1,062 1,062 1,067 1,133 1,170 1,062 1,065 1,122 1,159 1,105 1,065 1,065 1,062 1,122 1,159 1,065 | 1,065 1,121 1,156 1,105 1,005 | 1,015 1,050 1,055 1,121 1,126 1,126 1,125 1,105 1,005 |
| 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 000000000000000000000000000000000000000 | 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 1133 1 192 1 198 1 188 1 188 1 188 1 188 1 188 1 188 1 188 1 188 1 188 1 | 1,109 1,145 1,182 1,182 1,009 1,009 1,009 1,122 1,159 1,170 1,109 1,009 | 1,073 1,109 1,145 1,182 1,182 1,182 1,052 1,062 1,062 1,183 1,170 1,051 1,064 1,122 1,159 1,159 1,031 1,022 1,031 1,022 1,031 1,022 1,031 1,022 1,032 1,032 1,033 1,032 1,033 1,032 1,033 1,032 1,033 1,033 1,032 1,033 1,034 1,033 1,033 1,034 1,033 1,034 | 1,073 1,109 1,145 1,182 1,182 1,005 1,005 1,006 1,122 1,159 1,006 1,006 1,122 1,159 1,006 1,005 | 1.004 1.038 1.073 1.109 1.145 1.182 1.182993 1.006 1.006 1.006 1.006 1.183 1.170993 1.006 1.006 1.183 1.170993 1.006 1.006 1.183 1.170964908 1.006 1 |
| 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | | 1 1 1 2 2 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 | 1122 1122 1122 1122 1123 1124 1125 1126 1126 1126 1126 1126 1126 1126 | 1.006 1.12 1.150 1.006 1 | 1.051 1.066 1.122 1.159 1.081 1.022 1.051 1.066 1.122 1.159 1.022 1.052 1.052 1.159 1.052 1.052 1.159 1.052 1.052 1.052 1.059 1.052 1.059 1.052 1.059 1.052 1.052 1.052 1.052 1.052 1.052 1.052 1.052 1.052 1.053 1.054 1.053 1.054 | 1.051 1.066 1.122 1.159 1.051 1.051 1.051 1.056 1.122 1.159 1.022 1.057 1.052 1.129 1.052 1.055 | 962 1.016 : 051 1.056 1.122 1.159 954 . 968 1.022 1.057 1.092 1.122 956 . 968 1.022 1.057 1.092 1.129 936 . 977 1.013 1.040 1.075 1.129 937 . 956 . 997 1.040 1.057 1.113 923 . 956 . 997 1.024 1.057 1.113 924 . 956 . 997 1.024 1.059 1.095 905 . 967 1.003 1.052 1.087 907 . 928 . 967 1.003 1.025 1.087 885 . 912 . 957 . 991 1.025 1.057 885 . 912 . 940 . 973 1.013 1.046 885 . 912 . 940 . 973 1.013 1.046 885 . 907 . 908 1.003 1.013 1.046 885 . 907 . 908 1.013 1.025 885 . 907 . 908 1.003 1.013 1.046 886 . 907 . 908 1.003 1.003 1.037 886 . 907 . 908 1.003 1.003 1.037 886 . 907 . 908 1.003 1.003 1.003 |
| 4 4 4 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 112 1.14 6 1.16 1.16 1.16 1.16 1.16 1.16 1. | 1,006 1,112 1,148 1 1,006 1,002 1,102 1,138 1 1,006 1,003 1,102 1,111 1 1,004 1,005 1,005 1,111 1 1,003 1,005 1,005 1 1,003 1,005 1,005 1 1,003 1,005 1,005 1 1,007 1,003 1,005 1 1,007 1,003 1,005 1 1,007 1,003 1,005 1 1,007 1,003 1,005 1 1,008 1,008 1,008 1 1,008 1,008 1,008 1 1,008 1,008 1,008 1 1,008 1,008 1,008 1 1,008 1,008 1,008 1 1,008 1,008 1,008 1 1,008 1 1, | 1.041 1.076 1.112 1.148 1.1081 1.031 1.031 1.022 1.032 1.032 1.032 1.120 1.120 1.033 1.120 1.003 | 1.041 1.076 1.112 1.146 1.104 1.041 1.041 1.041 1.042 1.042 1.042 1.102 1.120 1.002 1.002 1.003 | 972 1,006 1,041 1,076 1,112 1,148 1,954 1,954 1,954 1,954 1,954 1,954 1,954 1,955 1,956 1, |
| 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 0002 120 | 1,046 1,063 1,120 1,103 1,040 1,040 1,057 1,067 1,103 1,100 1,000 | 1,022 1,046 1,062 1,120 1,005 1,005 1,005 1,006 1,005 | 1,022 1,087 1,092 1,120 1,005 1,005 1,006 1,006 1,005 1,006 1,007 1,111 1,007 | 956 988 1,022 1,057 1,092 1,120 936 979 1,013 1,048 1,083 1,120 930 956 997 1,032 1,057 1,103 923 956 997 1,032 1,057 1,103 915 956 967 1,017 1,052 1,087 909 942 976 1,017 1,052 1,087 907 926 963 997 1,013 1,067 891 924 957 991 1,025 1,057 885 907 951 951 1,057 885 907 951 951 1,013 1,054 885 907 935 963 1,002 1,037 885 957 958 1,002 1,032 |
| 2 9 7 9 9 1 4 7 9 7 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 | L no wall a u n n n alm u n u | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 083 1,120 057 1,003 058 1,003 058 1,008 058 1,008 058 1,008 058 1,008 058 1,008 058 1,008 058 1,008 058 1,008 058 1,008 058 1,008 | 1,046 1,083 1,120 1,040 1,042 1,042 1,042 1,042 1,043 | 1,013 1,046 1,083 1,120 1 1,005 1,040 1,075 1,111 1 0907 1,032 1,067 1,013 1 0908 1,004 1,052 1,095 1 0908 1,001 1,045 1,086 1 0908 1,001 1,045 1,086 1 0957 0907 1,031 1,066 1 0958 0907 1,013 1,066 1 0958 0907 1,013 1,046 1 0958 0908 1,013 1,046 1 0958 0908 1,013 1,046 1 0958 0908 1,013 1,046 1 0958 0908 1,013 1,046 1 0958 0908 1,013 1,046 1 0958 0908 1,013 1,046 1 0958 0908 1,013 1,046 1 0958 0908 1,013 1,013 1 0958 0908 1,013 1,013 1 0958 0908 1,013 1,013 1 0958 0908 1,013 1 0958 0908 1,013 1 0958 0908 1,013 1 0958 0908 1,013 1 | 1,013 1,046 1,083 1,120 1,005 1,005 1,005 1,005 1,005 1,011 1,005 1,005 1,011 1,005 | 946 979 1,013 1,048 1,083 1,120 1 932 1,005 1,00 |
| 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0567 1 103 1 0667 1 0677 1 067 | 1,032 1,057 1,103 1,005 | 997 1,032 1,057 1,103 1,095 1, | 997 1,032 1,057 1,103 1,095 1, | 930 923 924 925 926 927 927 928 927 927 927 927 927 936 947 947 947 947 947 947 947 947 |
| 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 44444 | 00000000000000000000000000000000000000 | 0.55 9 1 0.0 | 1,024 1,059 1,095 1 1,0017 1,052 1,087 1 1,003 1,0048 1,008 1 0,997 1,013 1,067 1 0,973 1,013 1,066 1 0,973 1,013 1,068 1 0,968 1,002 1,043 1 0,968 1,002 1,043 1 0,968 0,992 1,043 1 | 990 1.024 1.059 1.095 1.095 1.095 1.095 1.095 1.095 1.095 1.097 1.095 1. | 990 1.024 1.059 1.095 1. | 923 .956 .990 1.024 1.059 1.095 1.09 |
| 6 + 0 m h 1 m 0 + 0 + 0 | IL O U O O O O O O O O | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0.48 1.067 1.067 1.067 1.067 1.067 1.067 1.067 1.068 1 | 1,000 1,006 | 976 1.010 1.045 1.080 1.067 1.063 1.063 1.067 1.067 1.067 1.067 1.067 1.067 1.067 1.067 1.067 1.067 1.067 1.067 1.067 1.067 1.067 1.067 1.068 1. | 963 .963 1.005 1.005 1.006 1.005 1.006 1.003 1.005 1.0 | . 909 . 942 . 976 1,010 1,045 1,080 ,903 ,903 ,904 1,003 1,004 1,005 1,0 |
| COM C 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | | 033 1.067 1.005 0.035 0.035 0.037 1.006 0.056 0.056 0.056 0.056 0.056 0.056 0.056 0.056 0.056 0.057 0. | 1,003 1,036 1,073 11 0,067 11 0,027 11 0,025 11 0,025 11 0,04 11 0,054 11 0,054 11 0,054 11 0,054 11 0,054 11 0,057 11 0 | 969 1,003 1,036 1,073 1,095 1,073 1,095 1,007 1,095 1,007 1,095 1,087 1,095 1,087 1, | 969 1,003 1,036 1,073 1,096 ,963 ,963 1,007 1,005 1,00 | . 903 . 936 . 969 1,003 1,036 1,073 1,093 1,093 1,093 1,093 1,093 1,007 1,091 1,005 |
| 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | A D A M W W W | 0 4 8 7 7 7 7 | 019 1066 1060 1008 1008 1008 1008 1008 1008 | 973 1,013 1,048 1 979 1,013 1,048 1 973 1,008 1,048 1 968 1,002 1,043 1 968 992 1,022 1 | 957 991 1.025 1.060 1.054 1.054 1.054 1.054 1.054 1.054 1.054 1.054 1.054 1.054 1.055 1.055 1.055 1.055 1.055 1.055 1.055 1.055 1.055 1.055 1.055 1.055 1.055 1.057 1.055 1.057 1.05 | 957 991 1.025 1.060 1.054 1.054 1.013 1.048 1.013 1.048 1.013 1.048 1.043 1.048 1.043 1.048 1.002 1.043 1.04 | . 891 . 924 . 957 . 991 1.025 1.060 . 958 . 957 . 991 1.025 1.066 . 958 . 957 . 991 1.019 1.054 1.054 1.054 1.054 1.054 1.054 1.054 1.054 1.054 1.054 1.054 1.054 1.054 1.054 1.055 . 956 . 997 1.057 |
| 1.121 | n all m un an ut | | 000 1 | 9979 1.019 1.054 1.997 1.098 1 | 945 .985 1.019 1.054 1.945 .979 1.013 1.048 1.048 1.043 1.043 1.043 1.043 1.043 1.043 1.043 1.043 1.045 1.04 | 945 945 1.013 1.046 1.054 1.054 1.054 1.046 1.046 1.046 1.046 1.046 1.047 1.046 1.047 1.045 1.047 1.045 1.04 | . 885 . 918 . 951 . 985 1.019 1.054 1 . 880 . 912 . 945 . 9479 1.013 1.046 1.046 1.046 1.046 1.046 1.046 1.046 1.046 1.043 1.006 1.043 1.006 1.043 1.006 1.043 1.005 1.045 1.0 |
| 0000 | | 27273 | 008 1.043 1 002 1.037 1 992 1.032 1 | 974 1.008 1.004 1.004 1.002 1. | 940 973 1.008 1.043 1.935 935 968 1.002 1.037 1.930 925 958 992 1.027 1 | 940 973 1.008 1.043 1.945 935 9368 1.002 1.037 1.930 953 995 1.032 1.927 1.032 | .875 .907 .940 .973 1.008 1.043 1 .870 .902 .935 .968 1.002 1.037 1 .865 .897 .930 .963 .997 1.032 1 |
| 6660 | | 2 2 2 | 992 1.032 | . 963 . 997 1.032 1 . 958 . 992 1.022 1 | 925 958 997 1.032 1 | 2001 266 856 256 1 270 1 266 856 956 | . 865 . 892 . 930 . 958 . 997 1.032 1.057 1 |
| 0600 | , v | - 2 | 1,027 | 1 720 1 2051 1.027 1 1.027 1 | 1 750,1 599, 859, 659, | 1 120.1 200. 800. 620. | 1 750,1 290, 800, 650, 508, 008, |
| -000 | 3 | | | | . 920 . 953 . 987 1.022 | . 920 . 953 . 987 1.022 | .855 .888 .920 .943 .987 1.022 1 |
| 1,071 | 20 | | 966 1 000 1 | 932 ,966 1,000 | . 899 , 932 , 966 1,000 1 | . 899 , 932 , 966 1,000 1 | . 835 .867 .899 .932 .966 1,000 1 |
| 1.051 | 100 | | 947 .981 1 | .914 .947 .981 1 .697 .931 .964 | .881 , 914 , 947 , 981) .865 , 697 , 931 , 964 | .881 , 914 , 947 , 981) .865 , 697 , 931 , 964 | .817 ,849 ,881 ,914 ,947 ,981) .802 ,833 ,865 ,697 ,931 ,964 |
| 1.019 | 984 | 0.1 | 950 | 883 ,916 ,950 | .851 .883 .916 .950 | .851 .883 .916 .950 | .788 .819 .883 .916 .950 |
| . 996 | 90 | . 0 | .926 | .860 .892 .926 | .828 .860 .892 .926 | .828 .860 .892 .926 | . 765 . 796 . 828 . 860 . 892 . 926 . |
| 984 | 2 2 | 5 | 918 | 849 882 915 | 816 889 882 915 | 816 889 882 915 | 755 786 816 889 882 915 |
| . 965 | 931 | 2 6 | .897 | .832 .864 .897 | . 800 . 832 . 866 . 897 | . 800 . 832 . 866 . 897 | 738 . 769 . 800 . 832 . 864 . 897 |
| . 957 | 953 | 0 1 | . 889 | .824 .856 .889 .810 842 .875 | .792 .824 .856 .889 779 .810 .842 .875 | .792 .824 .856 .889 779 .810 .842 .875 | 731 .761 .792 .824 .856 .889 714 .748 779 .810 842 .875 |
| 0.0 | 0 | F) (| 863 | 798 830 863 | 100 000 000 Lot | 100 000 000 Lot | |
| 600 | 976 | 200 | 843 | .779 .810 .843 | 748 .770 .810 .843 | 748 .770 .810 .843 | 687 717 748 779 810 843 |
| 100. | 1967 | * 1 | .834 | 400 000 174. | .740 .771 .802 .834 | .740 .771 .802 .834 | .679 .709 .746 .771 .802 .834 |
| 989 | 50.00 | . 0 | .820 | 757 766 .820 | 726 757 788 820 | 726 757 788 820 | . 666 . 695 . 726 . 757 . 788 . 820 |
| . 879 | | • | .81 | .750 .782 .814 | .720 .750 .782 .814 | .720 .750 .782 .814 | ,660 .689 .720 .750 .782 .814 |
| .874 | 4 | 8 | 808 | ,745 ,776 ,808 | 714 ,745 ,776 ,808 | 714 ,745 ,776 ,808 | 654 684 714 ,745 ,776 ,808 |
| 898. | 8 | 93 | .803 | .740 .771 .803 | .709 .740 .771 .803 | .709 .740 .771 .803 | .649 .679 .709 .740 .771 .803 |
| 946 | • | - 3 | 181 | .719 .750 .781 | .689 .719 .750 .761 | .689 .719 .750 .761 | .629 .659 .689 .719 .750 .781 |
| 100 | , | 0 W | 90/ | 704 213 704 784 718 788 | 00/ 07/ 10/ 1/0° 1/0° 1/0° 1/0° 1/0° 1/0° 1/0° | 00/ 07/ 10/ 1/0° 1/0° 1/0° 1/0° 1/0° 1/0° 1/0° | 00/ 07/ 10/ 1/0° 1/0° 010° 010° 010° 010° 010° |
| 704 | . 6 | . 0 | 730 | 000. 000. | 027. 000. 000. 000. | 027. 000. 000. 000. | 580 . 600 . 680 . 680 . 680 . 730 |
| 783 | 751 | 0 | 720 | 658 689 720 | . 628 . 689 . 720 | . 628 . 689 . 720 | . 570 , 599 , 628 , 689 , 720 |
| 3775 | 7 | - | 711 | .650 ,681 ,711 | .621 .650 .681 .711 | .621 .650 .681 .711 | 563 ,591 ,621 ,650 ,681 ,711 |
| .768 | 736 | 50 | . 705 | 644 674 705 | 614 ,644 ,674 ,705 | 614 ,644 ,674 ,705 | 556 585 614 644 674 705 |
| 758 | 726 | 2 0 | 695 | .634 .654 .695 .634 .665 | \$50° \$40° \$50° \$00° | \$50° \$40° \$50° \$00° | .551 .580 .609 .639 .664 .699 .547 .575 .604 .634 .664 .695 |
| . 700 | 666 | 8 | .638 | .578 .608 .638 | 549 ,578 ,608 ,638 | 549 ,578 ,608 ,638 | 492 ,521 ,549 ,578 ,608 ,638 |
| .686 | 555 | 4 | .624 | .565 .594 .624 | .535 .565 .594 .624 | .535 .565 .594 .624 | ,479 ,507 ,535 ,565 ,594 ,624 |
| | | 26 | 966 999 1 019 1 950 934 935 945 945 945 945 945 945 945 945 945 94 | 8637 931 966 950 984 1 019 1 965 845 845 966 966 1 019 1 965 845 965 965 965 1 019 1 965 1 965 845 965 965 965 965 965 965 965 965 965 96 | 851 883 916 950 984 1 019 1 851 883 916 950 984 1 019 1 966 950 984 1 019 1 966 950 984 1 019 1 966 950 984 1 019 1 966 950 984 1 019 1 965 916 950 984 1 965 1 965 916 960 960 960 960 960 960 960 960 960 96 | 851 883 916 950 984 1 019 1 851 883 916 950 984 1 019 1 966 950 984 1 019 1 966 950 984 1 019 1 966 950 984 1 019 1 966 950 984 1 019 1 965 916 950 984 1 965 1 965 916 960 960 960 960 960 960 960 960 960 96 | 802 833 865 697 931 966 999 1.019 |

TABLE III (CONT.)
FACTORS OF ONE-SIDED TOLERANCE LIMITS FOR A NORMAL DISTIRBUTION

Proportion of Population Covered

99Z CONFIDENCE

| | • | 90 | .87 | | | 00. | .00 | 76. | . 63 | •6• | \$6. | 96. | . 64 | • | 66. | 900 | 066 |
|-------------|-------------|------|--------|---------|---------|-------------|--------|--------|--------|-------|--------|---------|-------|---------|-------|--------|---------|
| 2 2 | 17 | .183 | 12.593 | 13,025 | 13,495 | 13,995 | 14.538 | 15,131 | | | 17,370 | 37 | 9 1 | 50 | 60 | 26.319 | ₩. |
| n a | • | 0 0 | • | 2000 | 7 | 085. | 7.003 | | 987.0 | 0.020 | 0.003 | 9.589 | NF | 9 | ۳. | .61 | • |
| 1 H 2 Z | n | 9 2 | | 4,125 | 4.263 | 4.411 | | | 9 0 | 5,156 | 5.405 | 5 701 | 000 | , i | 7 335 | 0.0 | 0 0 0 0 |
| ž | m | 39 | | 3,609 | 3,730 | . 85 | | | 32 | 4.510 | ٠. | • | | 73 | | 7.040 | n m |
| I Z | m | 0.7 | • | 3,270 | 3,380 | | • | - | • | .00 | • | .51 | 00 | 13 | | • | • |
| 2 2 | ~ 6 | 4 | - | 3,029 | 3,132 | 2 | 3,358 | 9 | 203 | | 3,972 | 4.189 | 4.457 | | 38 | .0 | • |
| 2 2 | | | | 2.705 | 2,707 | • | • | | | 00. | 3.7.58 | 2 4 6 6 | - 6 | 6.53 | 2.07 | | • |
| ı ı | 8 | | | 2,591 | 2.680 | 2.774 | 2.876 | 2.987 | 3.110 | 1 0 | 7 | 3.594 | 3.826 | 4.136 | 4.629 | | 6.030 |
| ı Z | 2 | 3. | | 2.497 | 2,583 | 4 | 2,773 | • | 00. | .13 | 8 | | 69 | 3,992 | 9 | | |
| * 2 | ۷, | 26 | • | 2.419 | 2.502 | ٠. | 2.687 | • | • | .03 | 3,186 | 36 | 0 | 3.871 | 4.334 | .76 | 400 |
| Z | ~ | 2 | • | 2,352 | 2,433 | 52 | 익 | 7 | - 82 | 50 | - 4 | 27 | - | 3,769 | .22 | 4,637 | 50 |
| n Z | N I | 2: | • | 2,204 | 2,374 | *. ' | S. | 9 | | | 3,027 | . 10 | • | 3,681 | .12 | .52 | 37 |
| Z : | ٠, | 0 5 | • | 2.244 | 2,322 | • | • | 2,593 | | .82 | • | . 12 | .33 | 3.604 | •03 | | .26 |
| N 1 | • • | מ מ | | 2010 | C/2.2 | | 2.4.0 | ٥. | | 2.767 | • | | 98 | 3,534 | 96. | 4.352 | 9 . |
| ! !! ? ? | | 90 | | 2,120 | 2,105 | 27 | 30 | | | 2.674 | 000 | 2000 | | 214 | 0 6 | 2 0 | 5.078 |
| Z | - | 95 | | 2,087 | 2,16 | 2.240 | 32 | ٠. | 51 | | | | - | 3,368 | 77 | 2 | 4.929 |
| 2 | -" | 92 | | 2,057 | 2,130 | 2,208 | 2,292 | 36 | | S. | 1. | 80 | 6 | 3,323 | 72 | 8 | \$ 965 |
| n | - | 00 | • | 2,030 | 2,102 | 2,179 | .26 | ۳. | ٠. | ı. | 69. | | .03 | 3,282 | .68 | | 4.806 |
| ž | . - | 87 | | 2.005 | 2.076 | 2,152 | 200 | N (| 2,423 | 2,534 | • | 2.011 | 2.997 | 3,244 | 3,638 | 000 | 4.753 |
| 4 I | • - | 0 4 | • | 1 0 0 0 | 2002 | 20100 | ٠ | A t | 3. | ů « | 9 | . 78 | 6 | 2.012. | 000 | 3.950 | 4.704 |
| ! # ! Z | | 9 1 | | 1000 | 2,010 | 2.084 | 91 | 1 14 | ייי ני | | , id | 2 726 | 20 | 200 | | 2 | 800.4 |
| ž | - ' | 0 | | 1,922 | 1,001 | 2,065 | ٦. | ٦. | Γ. | ١. | 55 | 10 | ei : | 3,121 | 105 | 3.651 | 577 |
| # Z | | 78 | • | 1.904 | 1,973 | 2.046 | ٦. | ٣. | | ٠. | S | 67 | 65 | 3,095 | 3.472 | 3.620 | 4.541 |
| I Z | - | 16 | 1.825 | 1.888 | 1.957 | 5.029 | • | 2,193 | ~ | | .51 | 2.658 | | 3,071 | | 3,791 | 4.507 |
| ž | | 7.5 | • | 1.873 | 1.941 | 2,013 | ŝ. | ٦. | 4 | • | • | 2.638 | • | 3.048 | 3.421 | | 4.475 |
| # Z : | ᆣ. | 73 | • | 1.958 | 1.926 | 866.1 | ٠, | ∹ ` | 7 | 2,356 | . 47 | • | . 70 | 3.027 | 16E E | 3.73B | |
| 2 | -: - | 2 : | •1 | 1.845 | 1.912 | 1.984 | • | ٦, | 2 | • | 2.461 | ઢ | • | 3.007 | 3,375 | 7 | 7 |
| 2 | | : 5 | • | 1.832 | | 1.970 | • | • | , , | • | • | . 50 | | 2.988 | ě, | .00 | 38 |
| 2 2 | | 2 8 | • | 1.620 | | 1.95 | • | • | × - | | 7 | ທໍາ | | 2.070 | . B | 90. | 4,764 |
| 1 I | • | 6.4 | | 1.707 | 1.863 | E 0 | • • | • | • | • | | 2 840 | • | 2000 | | • | # : |
| ž | - | Ş | 1,726 | 1.787 | 1,653 | 1,922 | 00 | 2,080 | | 2,272 | | 35 | . 69 | 2.921 | 3.280 | 3.610 | 100 |
| Z | - | 65 | • | 1,777 | 1.842 | 1,912 | 96. | ٥. | ٠. | .26 | .37 | 5 | 99 | 2.907 | 26 | ŝ | 4.275 |
| R Z | . | 65 | 1.707 | 1.767 | 1,832 | 1 .902 | • | 90. | . 1 | 2,248 | 7. | 2.500 | ۹. | 2.892 | 3,248 | .57 | 4.255 |
| ž : | . . | 0 1 | • | 1,758 | 1.823 | 1.892 | 9 | | ~ | .23 | י פי | • | .03 | 2.879 | .23 | . 55 | 23 |
| # 1 Z Z | · - | 2 0 | 1.00 | 7 4 7 | 200 | 1 874 | | 2000 | 2 117 | 2.5 | • | 2 447 | 2.643 | 2.800 | • | 6 | 4.217 |
| Z | | 61 | • • | 1,732 | 1.797 | 1.865 | 1.939 | 5 | | N | . " | 5 | 6.0 | 2.842 | | • | 9 4 |
| 2 | - | 9 | | 1,725 | 1 , 780 | 1.857 | 93 | 0 | ٥. | - | • | | 19 | 2,631 | 18 | 50 | 4.167 |
| # Z | - | 09 | • | 1.717 | 1.781 | 1.849 | 92 | • | ٥. | .18 | 30 | €. | 9 | 2.820 | 9 | ١٠. | 4.152 |
| ı Z | <u>.</u> . | 6 | 1.651 | 710 | 1.774 | 1.841 | 1,915 | 66 | • | - | • | •. | 50 | 2.809 | 3,156 | • | 4,137 |
| | ٠. | 0 0 | • | 20. | | .000 | | 9 7 | | - | 'n, | | 0 | 4.790 | | ٠ | N. |
| # 2 2 | • - | 9 1 | • | 060 | | 790 | | 5 6 | | | • • | | • | | | • • | = (|
| 2 2 | • - | | • | 1,000 | 723 | 1 100 | 200 | | • | | • | | | 2 7 3 8 | | • • | 0000 |
| Z | 1- | 52 | • | 1.636 | 1.608 | 100 | 1.835 | 1 012 | 10 | 10 | 12 | | 1 | 2.702 | | 7 |) (|
| Z | - | 50 | | 1,614 | 1.676 | ~ | 6 | 1.888 | 6 | 9 | 17 | 30 | 9 | 2,671 | 0 | | * |
| z | - | 48 | • | 1,595 | 1,656 | 1,721 | | 9 | 95 | • | .15 | ~ | | 2,643 | .07 | ٧. | 3.905 |
| z Z | | 9 | 1,523 | 1.579 | 1.639 | 9 | - | • | 1.932 | 0 | 2,132 | 2,257 | 2.412 | 2,619 | Ġ. | ٧, | .67 |
| 2 2 | .·- | 0 4 | • | 900. | 1.02 | 990 | 1.757 | 9 | 1.915 | 0 | - 6 | 23 | 6. | 2.598 | 2,923 | ٠, | |
| | - - | | ٩ ١ | 1.538 | 1.598 | 40 | 1.720 | •] O | 1.885 | 30 | | 202 | 7 | 2 561 | 2 883 | 34199 | 3.015 |
| Z | | 42 | 1.472 | 1.527 | 1.586 | 1.649 | 7 | 791 | | 1.964 | 2,068 | 2,191 | | 2,545 | 2.865 | - | 7.6 |
| # Z ; | 100 1 | 410 | • | 1,517 | 1.576 | m | | | 1,861 | 95 | .05 | ٦. | .32 | 2,531 | 2.840 | , " | • |

| | _ |
|-----|---|
| | П |
| - 2 | |

| | •• | 2 | .4 | 2 | 2,356 | 2,435 | 2,541 | 2,648 | 2,767 | 2,905 | 3 066 | 3.267 | 3.534 | 3.000 | 1362 | 3.166 |
|-----|-----------|------------|-------|-------|-------|----------|-------|--------|---|-------|--|--------|-------|-------|-------|---------|
| | ••• | 8 | cA | N | 2,313 | 2.400 | 2,495 | • | 2,718 | 2,853 | 3.012 | 3.209 | 3.473 | 3,891 | 4.277 | 5.078 |
| | | N | 14 | ~ | ٧. | .36 | .45 | 2,557 | 9.2 | 2.807 | 96 | 3,158 | 3.418 | | 4.210 | 5,000 |
| 1 | ٦١. | ~]· | ٦, | ٦. | ٧, | 32 | 1 | 2.519 | 2 | 2,765 | 2 | 3,112 | 3,368 | | 4.150 | 4.929 |
| | | | | | ٠, | . 20 | . · | 2.484 | 200 | 2.727 | • | | 3,323 | N | 960** | 4.865 |
| | | • | • " | v 10 | • | . K | 2 6 | | ֓֞֜֜֜֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֡֓֓֓֓֓֓֡֓֓֓֡֓֡ | 0 | • | 0 (| 3,282 | 9 7 | 9.0 | 9000 |
| | - | - | - | 1 (4 | 2,128 | 2.209 | 2,298 | 2,396 | | 2.632 | | 2.064 | | 000 | 000 | 100 |
| | - | _ | _ | (A) | | 1.0 | .27 | 37 | 3 | 9 | ٠, | | - | 9 | 3.920 | 4.656 |
| - | - - | -} | _ | ٦ : | 악 | 3 | 2 | 1 | | .58 | 2 | 2,907 | 3.146 | 3,631 | 3.864 | 4.616 |
| | | • - | - | | , 0 | • | • | • | ? | 760.7 | 201.2 | 2.881 | 3,121 | 3,501 | 3,651 | 6.577 |
| | _ | - | _ | - | 0.2 | | - | 28 | n | 9 | | 2 6 | 3,043 | 900 | 701 | 100 |
| | _ | - | _ | _ | .°. | ò | • • | . ~ | m | - | ñ | 2.613 | 3,048 | 3.421 | 3.763 | 0.4.4 |
| | - | - | _ | _ | 0 | .07 | .10 | . 25 | 35 | 14. | .0 | . 70 | 02 | | 3.738 | 4.465 |
| | - | 1. | _ | _ | | .06 | - | .23 | • | * | 9 | - | 8 | m | 7 | 4.416 |
| | _ | 1 | _ | - | | 0 | .13 | | 32 | • | .58 | | 96 | 38 | 3,691 | 4.389 |
| | | - | _ | _ | | 2.034 | • | .20 | • | ٠. | | ~ | .97 | 33 | 99 | 4.364 |
| | | . | _ | | • | .05 | ٥. | | 50 | - | . 55 | 12 | 9 | ~ | • | 4.340 |
| | | - | | - | m | °. | 6 | - | .28 | • | S. | 2,710 | 2.937 | 29 | 62 | 4.317 |
| | | -• - | | | 1.922 | 1.998 | 8 | 2,170 | W. | 5 | 0 | 2,695 | 2.921 | 3.280 | | 4.295 |
| 1 | ٦ [٦ | | ٦, | ٦ ` | - IC | 1.967 | | 2,159 | ~]• | J. | 5 | 2,681 | 2,907 | 2 | 3 | 4,275 |
| | | • - | • - | - | 200 | • | 5 | 2,148 | N (| | 9 | 2.668 | | e r | 0 1 | • |
| | _ | - | . – | • - | | • | | 2 127 | • | • | • | 0 0 0 | 0 | 3 . | 0 4 | 4.630 |
| | - | - | - | | 0 6 | • • | 2.028 | 2,117 | | | | • | | - 6 | 6 V | • |
| | • • | - | - | - | • | 1.939 | 5 | 2,106 | N | | 2,455 | | | 3,192 | 5 5 | 4.183 |
| | 7 | - | _ | | 1,957 | • | • | 2,099 | 8 | | | 2,610 | 83 | 9 | 50 | 4.167 |
| | Г | - | - | - | 1,849 | • | • | 2,090 | ٧. | 1.: | • | • | 95 | 12 | | 4.152 |
| | _ | -• | _ | _ | 1,841 | • | • | 2,082 | 2 | | 2 | | | 5 | 7 | 4,137 |
| | _ | - | - | - | 1.834 | • | • | 2.074 | N | | - | | .79 | ~ | | 4,123 |
| | | - | | | 1.827 | 1.900 | 1.979 | 2,066 | 2,164 | 2.27 | 2.408 | 2.572 | 2.789 | 3,134 | 3.452 | 4,110 |
| | | | | | 1.620 | • | • | 6000 | N (| | | • | .78 | - (| : | 960. |
| Т | 7 | -] | ٦. | 7 | 1 790 | 1 - 86.1 | ٩. | 6 026 | NÌ٠ | Л. | 8 | • | 2 | 익' | 3,390 | 4 |
| | | - · | | ~ . | 10,70 | 1.835 | • | 1.997 | N | N. | , r | • | 2: | 0 | • | • |
| | | • - | - | - | | | • | 2/6" | 7 0 | • | · . | • | • | 2 6 | | • |
| | _ | • - | - | | 1 704 | 10/01 | 1000 | 200 | v 1 | • • | • | 6.4.50 | 2.0.7 | 0 | 2 | 0000 |
| | | - | . ~ | - | 1.688 | 757 | • | 1,015 | N | 4 6 | . ~ | • | | N | 22 | • |
| - | | - | _ | _ | - | 1.742 | • | 1.699 | - | | 22 | • | • | 0 | 1 | • |
| Ì | | - |]_ | - | 1,661 | 1,729 | ٠, | 1,885 | - | • | 20 | ٠. | • | 8 | F | • |
| | - | - | _ | | • | 1,717 | • | : 4873 | - | | . 19 | .34 | .5 | .86 | ٦. | 3.768 |
| | | <u>.</u> . | | | | 1.706 | 1.780 | 1.861 | <u>.</u> | 2,056 | - 17 | • | 53 | | 3,142 | • |
| | | • | - | - | 9 0 | 0 0 | 9 | 1 823 | - | • | 0 41 | 2 | | 700 | | 3 681 |
| | | - | _ | _ | 1.589 | • | 1,728 | 1.808 | - | • • | 7 | 26 | • | 7 | 8 | • • |
| | | - • | - | - | 1,577 | 0 | 1,715 | 1.794 | - | | - | 2,251 | 2.447 | ~ | 3,042 | 3,631 |
| | | | | | 000 | 7501 | 507 | 1.784 | | 1.971 | ֭֓֞֞֜֞֜֓֞֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֡֓֜֜֓֓֓֓֓֡֓֜֓֡֓֡֓֡֓֡ | N . | ? | - 6 | 9 6 | 0.00 |
| | | - | . – | _ | 'n | o | 1.683 | 1.761 | - | • • | 0 | 2 | • | | | |
| | | | _ | _ | 10 | • | 1.674 | 1.752 | | | 05 | 20 | 39 | 70 | 0 | 3.550 |
| - | | - | | - | 60 | 1,596 | 1,666 | 1.744 | 1 | • | • | - | 36 | .68 | 96 | 54 |
| | | ~ | _ | _ | 8 | 3 | • | 1.737 | - | 1,923 | • | . 18 | • | .67 | \$6. | 3,532 |
| | | - | | | • | 1.560 | 1 630 | 1,707 | - | 1.891 | ŝ. | | 33 | 2,637 | .01 | • |
| | | . · | | | - | n ı | • | . 685 | | 1.867 | 0 | .12 | . 31 | 8 | | • (|
| | | | | | | 0 4 | ٩ | 2000 | - | 0000 | | 0 | 200 | | 3 | 9 |
| | | - | . – | - |) - | • | • | 1.620 | - | 700 | | | 23 | | | 0 17 |
| | - | - | - | Γ | 1.406 | 10 | 1.535 | 1.609 |]- | 1.786 | | 6 | 12 | S | 2 | 3 |
| | | - | _ | | 9 | • | 1.526 | 1,600 | - | 1.777 | | .02 | 20 | | 7 | 29 |
| • | - ' | - | | - | 1,390 | 1,452 | 1,519 | 1.593 | - | 1.769 | 8 | - | . 10 | | 2.746 | 20 |
| 2 2 | 000 1 176 | 76 1.224 | 1 208 | 1,327 | | 4.5 | 1.513 | 200 | ٩. | 1.762 | 1.073 | | 2,189 | 2.474 | 5 | |
| י כ | | • | • | | 212.1 | 275. | 800 | 010.1 | 000 | 19001 | - 1 | | 5 6 | 5 | 2,025 | 3.147 |
| 3 | - | | | T. | , | | 2 | 1 | | 000 | | | • | , | 24.00 | 0 1 1 0 |
| | | | | | | | | | | | | | | | | |